



DEWcor

**Architect's
Pack**

A person wearing a dark suit and a yellow hard hat is shown from the side, holding a yellow object. They are standing next to a large, complex steel truss structure, likely part of a bridge or a large industrial building. The background is a bright, hazy sky.

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Walls

EXTERNAL WALL OPTIONS

EXAMPLES OF FINISHED WALLS



Shiplap Cladded Wall



Solid Plastered Walls

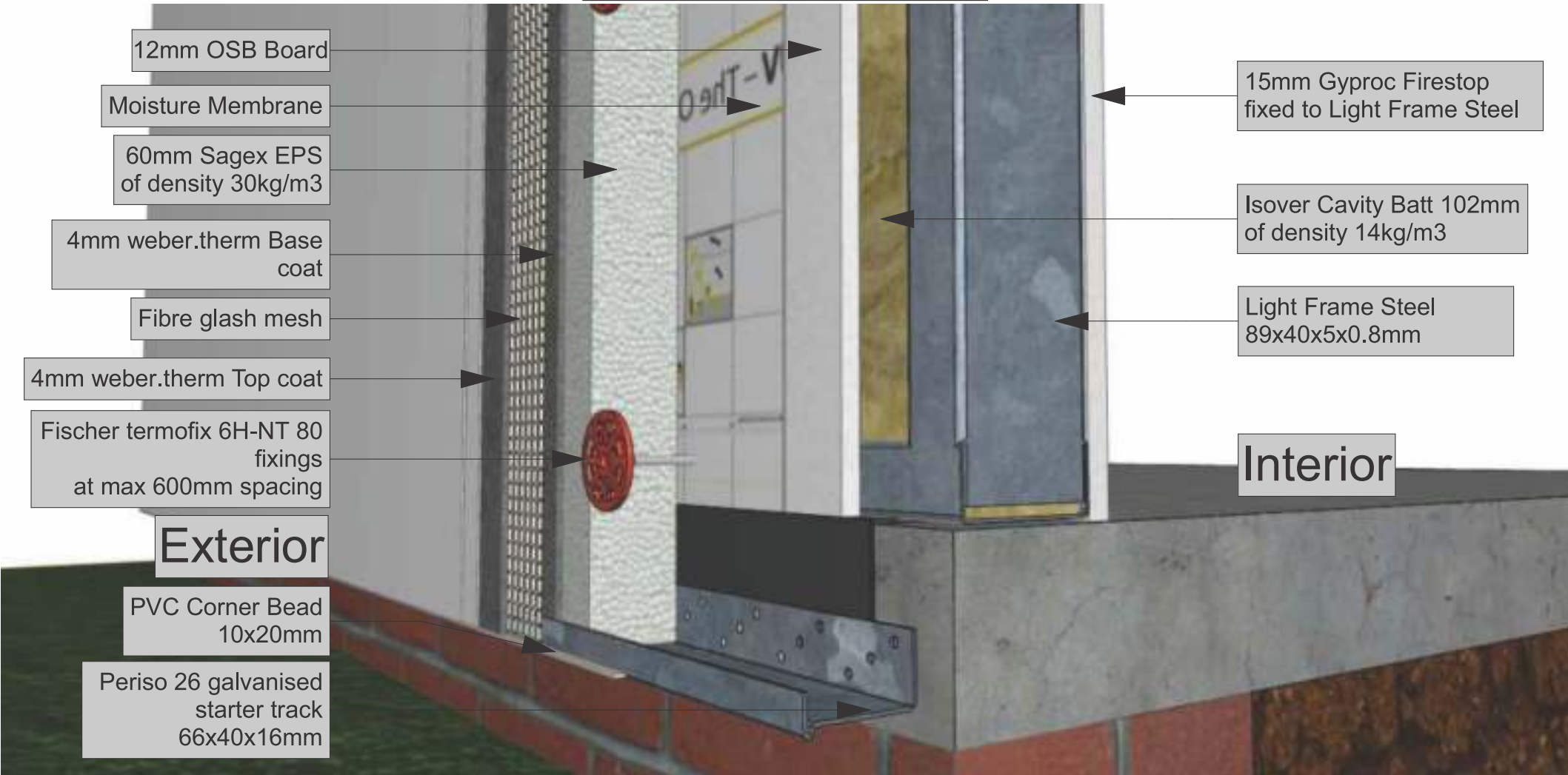


Etics Walls

STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

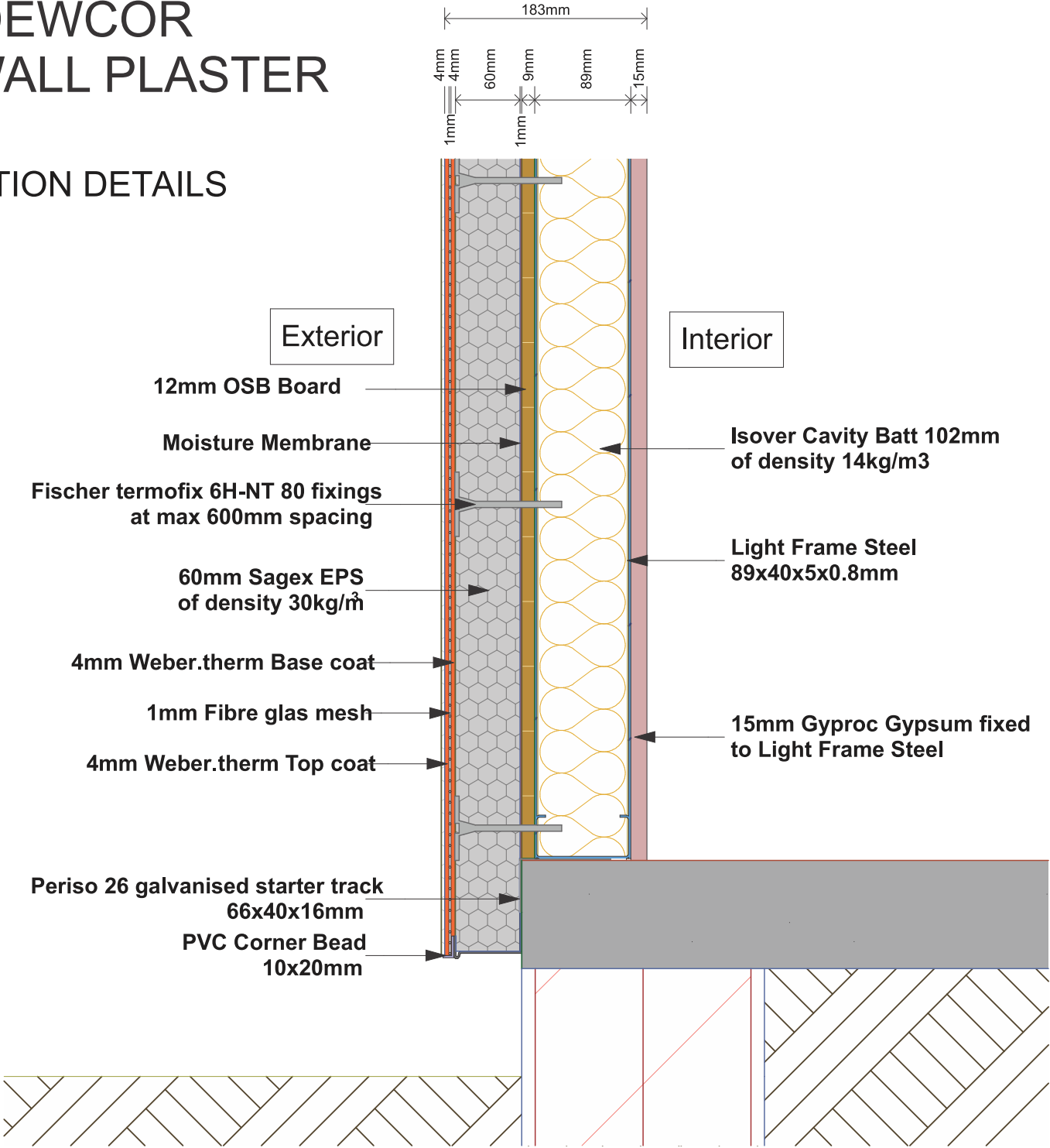
Wall Construction Details

<u>ETICS Wall System:</u>	
R-value	4.652
Total weight/wall m ²	53kg/m ²
Fire Rating	30min
Sound Insulation	46dB
Overall thickness	183mm



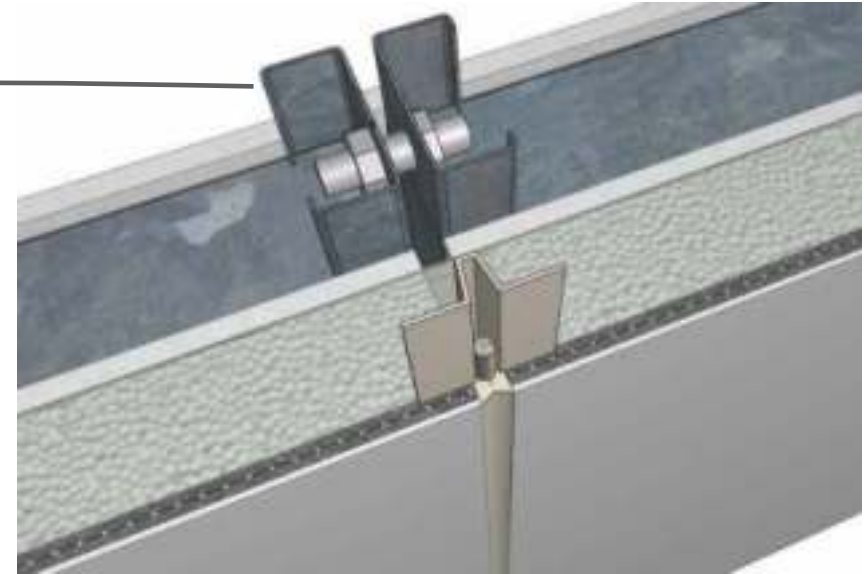
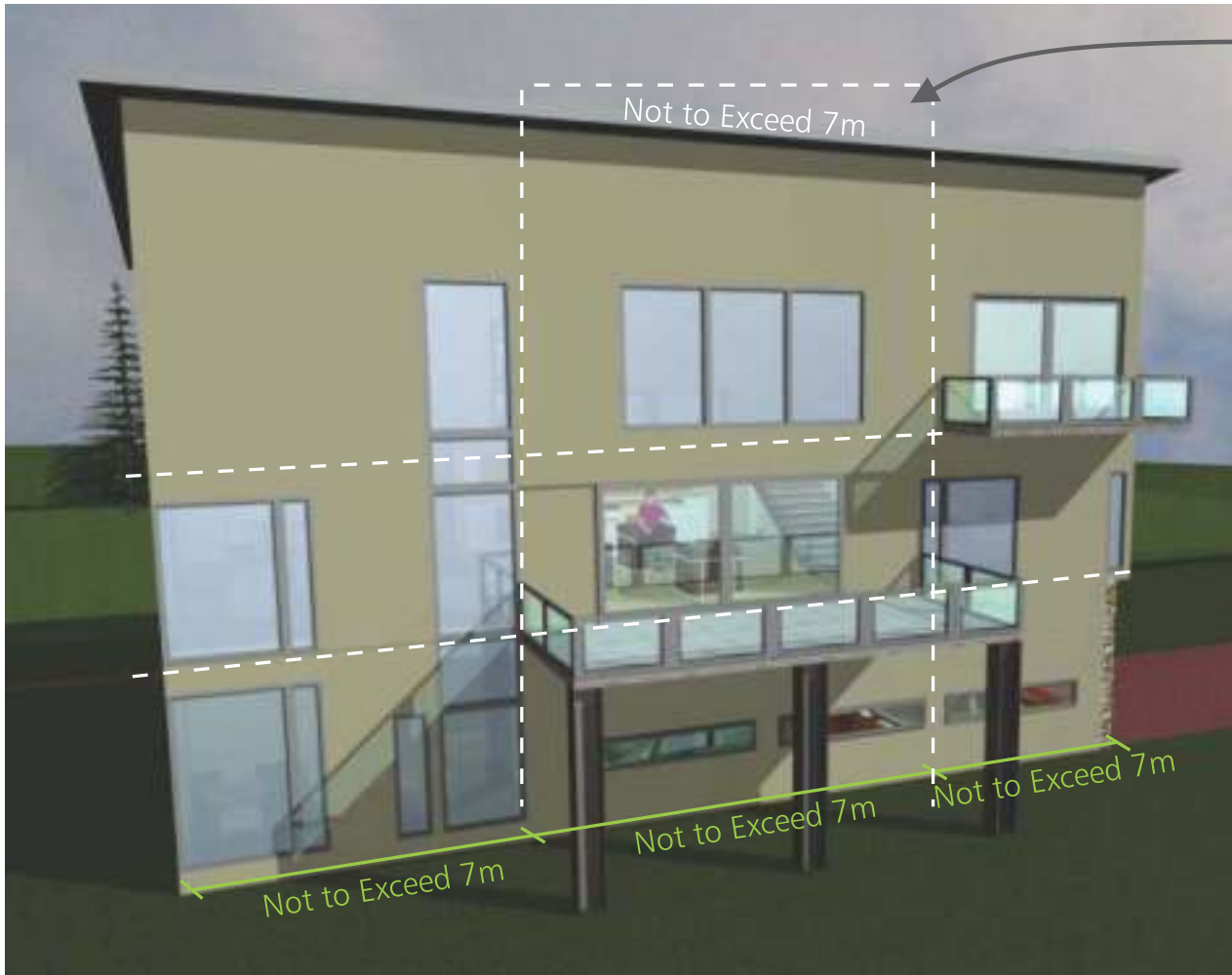
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

WALL CONSTRUCTION DETAILS



STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Expansion Joints



Expansion joint notes:

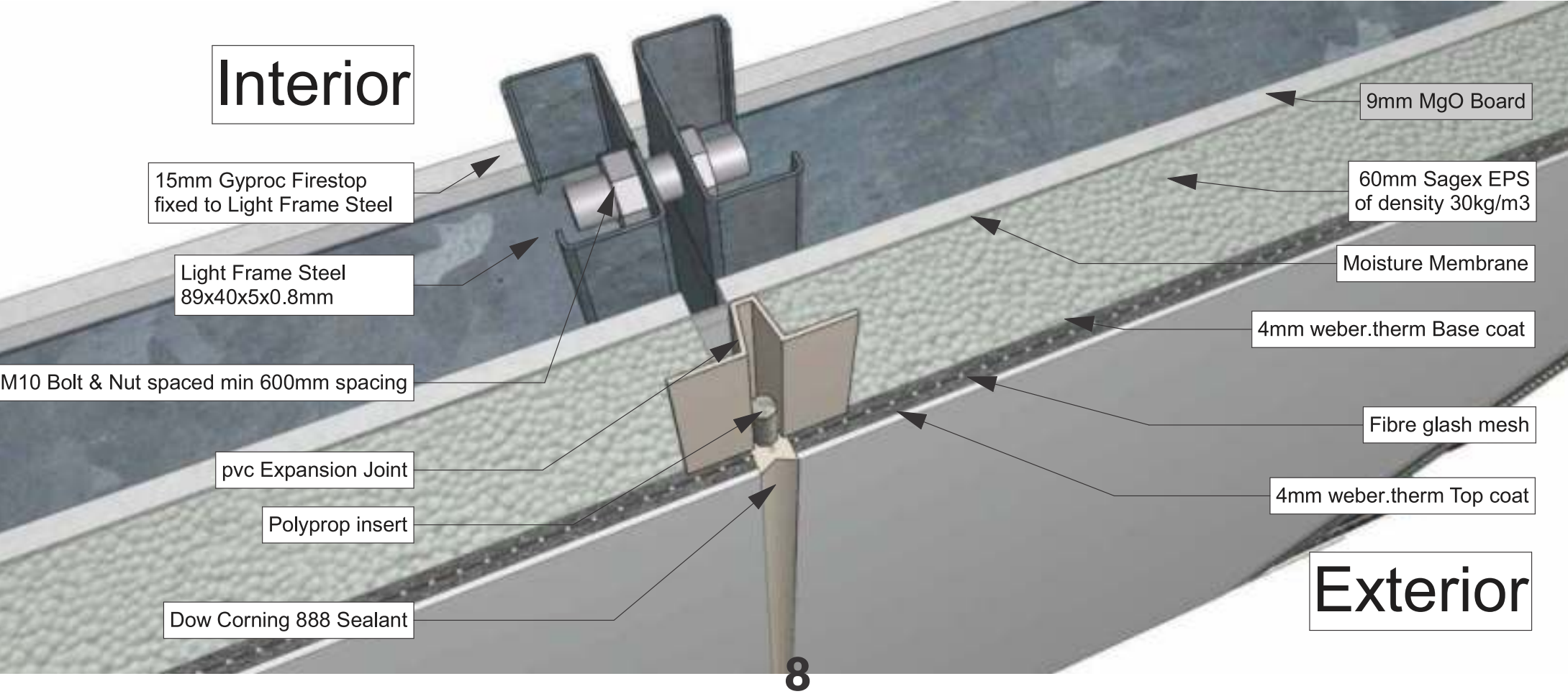
- 1- Vertical expansion position not to exceed 7m
- 2- Expansion to be installed horizontally at each new storey
- 3- UBS uPVC expansion strips to be installed as per instructions (page 07)

STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

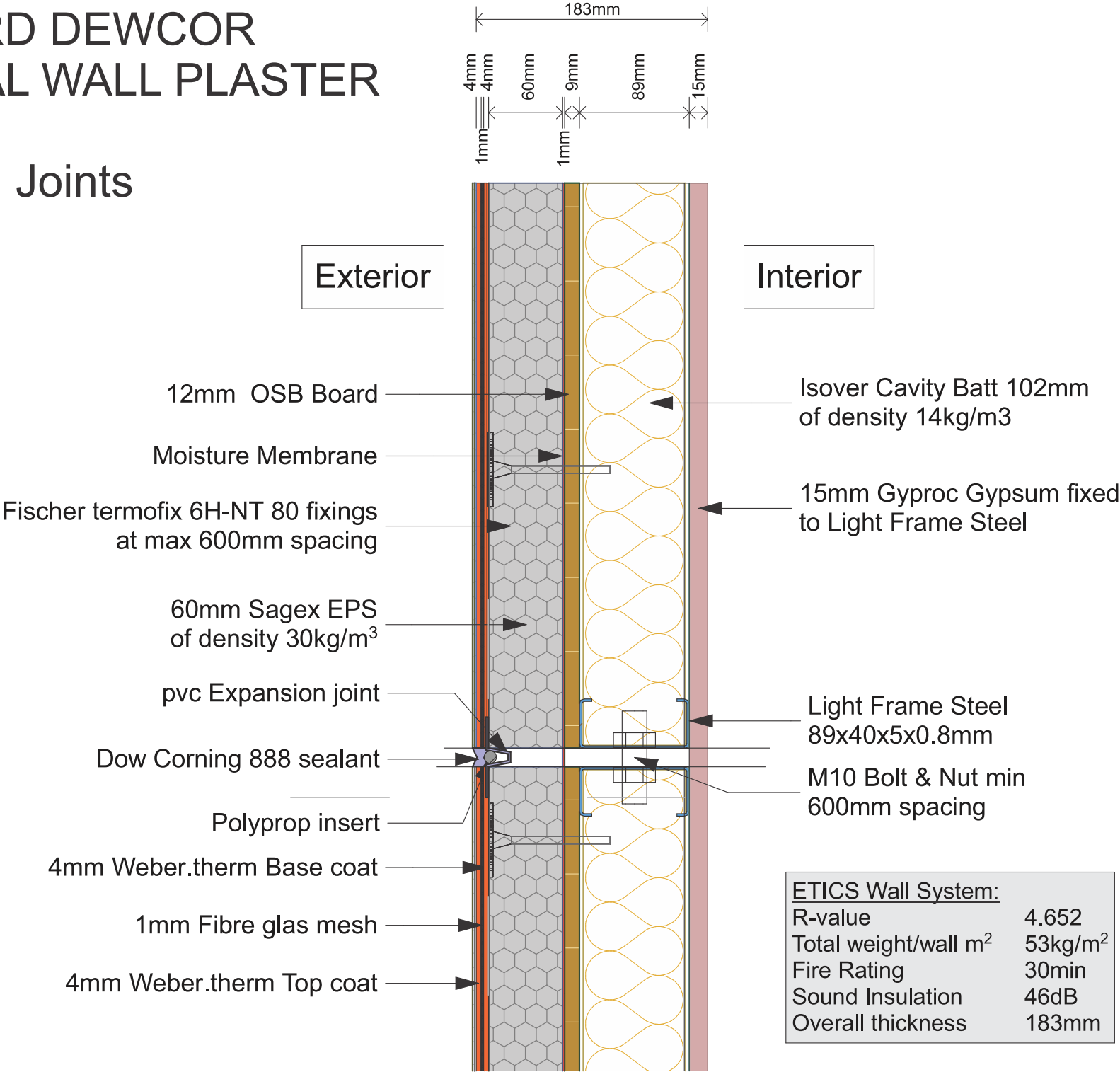
Expansion Joints Notes:

- 1- Vertical expansion position not to exceed 7m
- 2- Expansion to be installed horizontally at each new storey
- 3- UBS uPVC expansion strips to be installed as per instructions (page xx)

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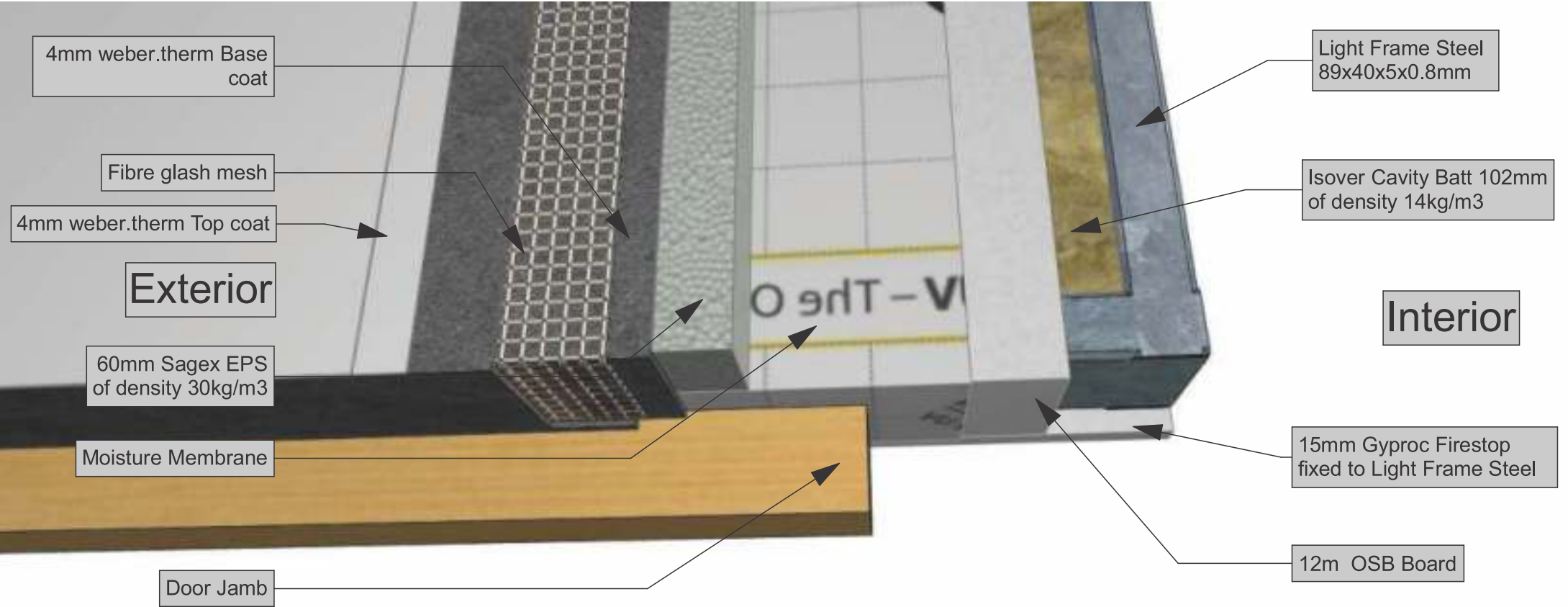


STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS Expansion Joints



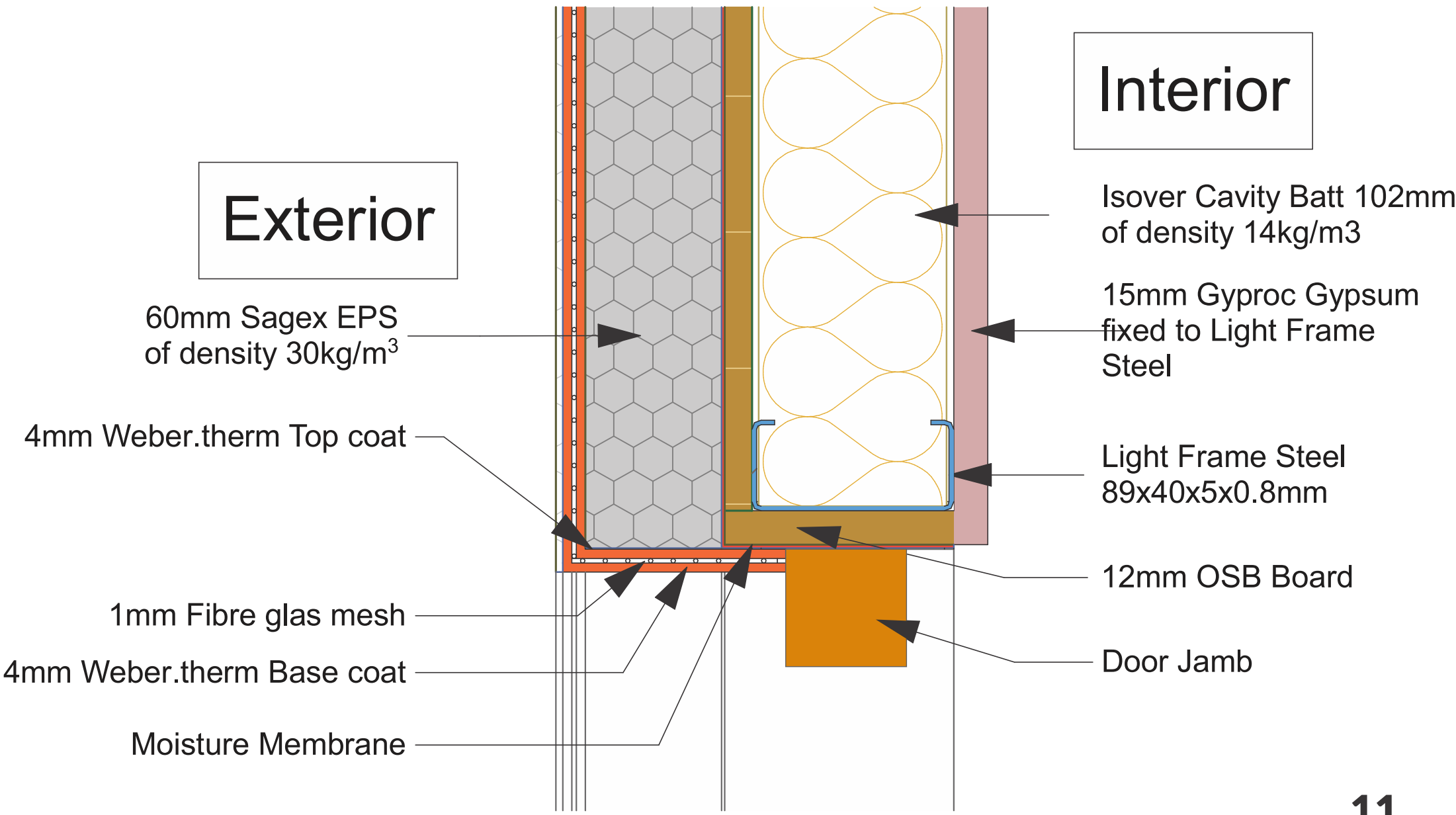
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Doors



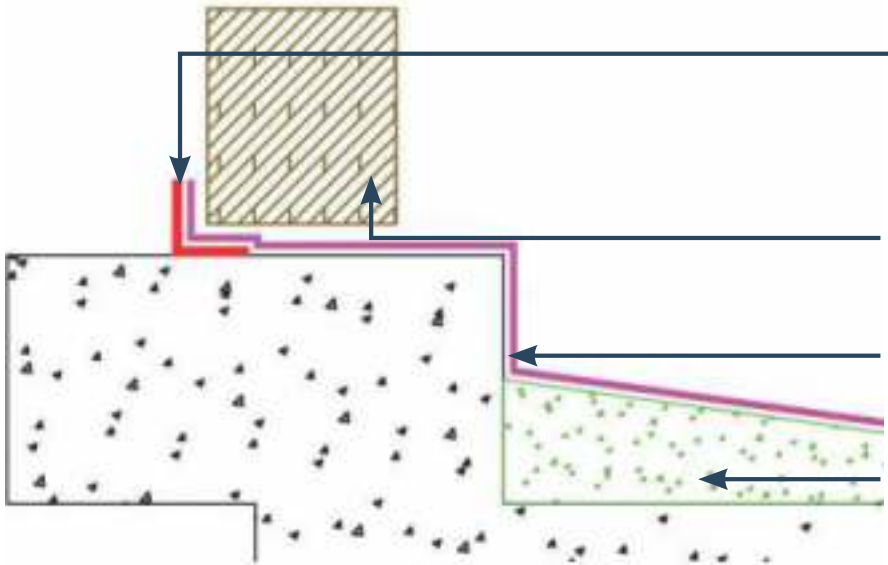
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Doors



STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Doors

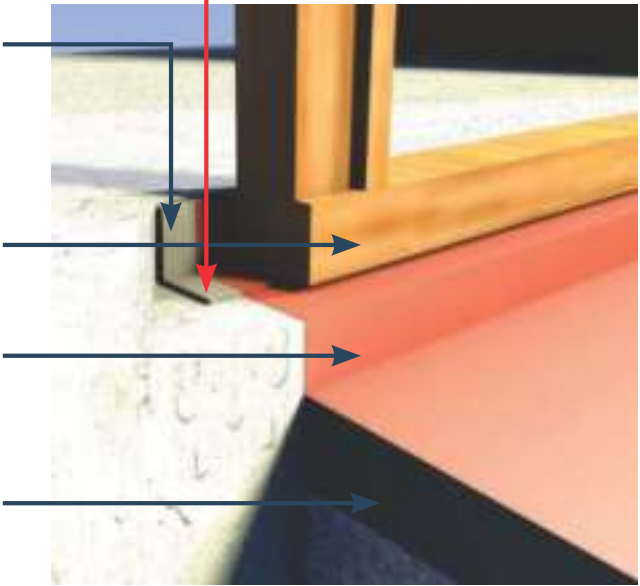


30 mm x 30 mm Angle
Fitted to Concrete to Receive
Waterproofing Prior to Door Fitting

Door

Waterproofing on Screed to Fall

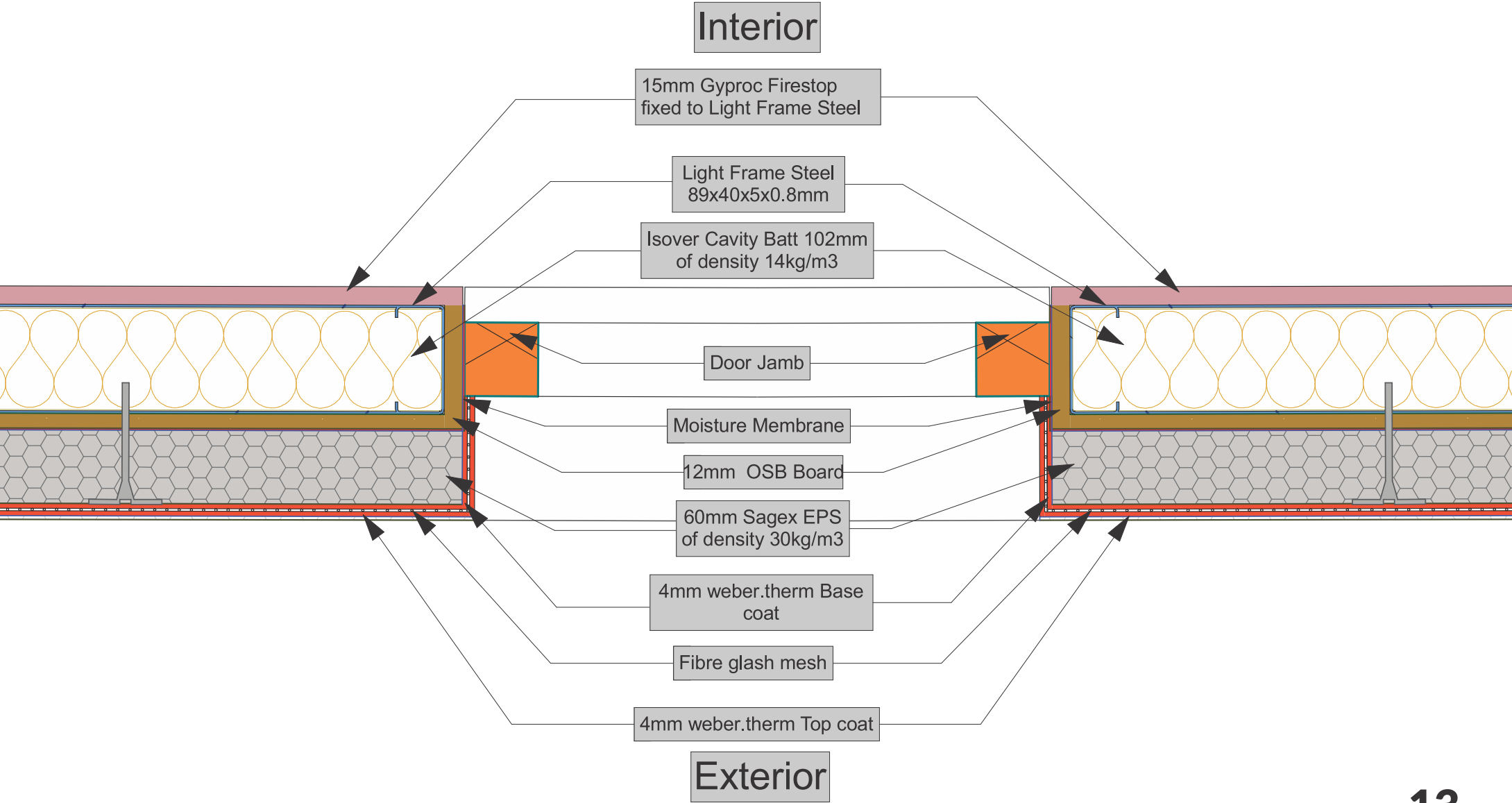
Screed to Fall
Minimum 1° Fall



STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

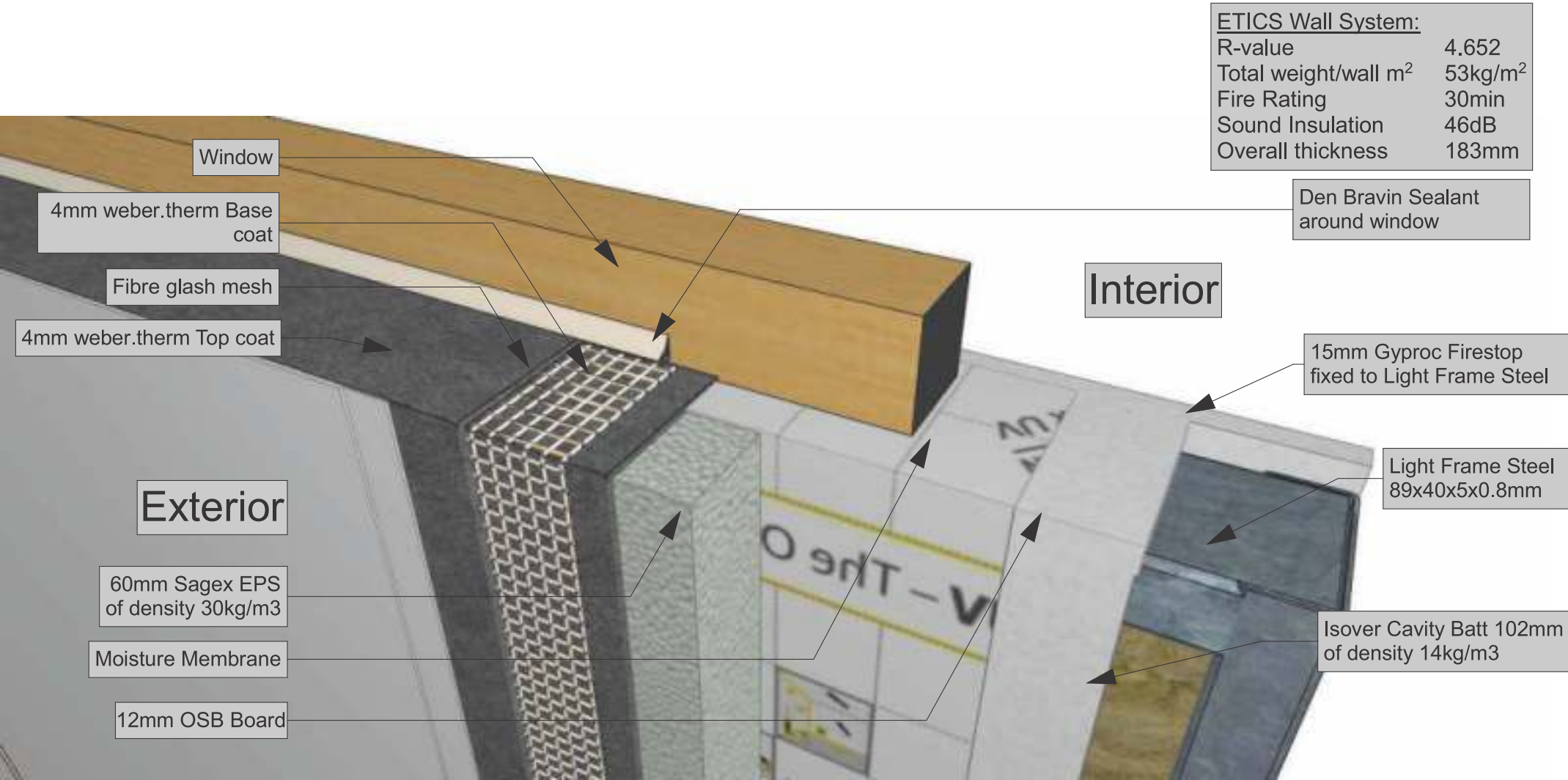
Waterproofing - Doors

TOP VIEW



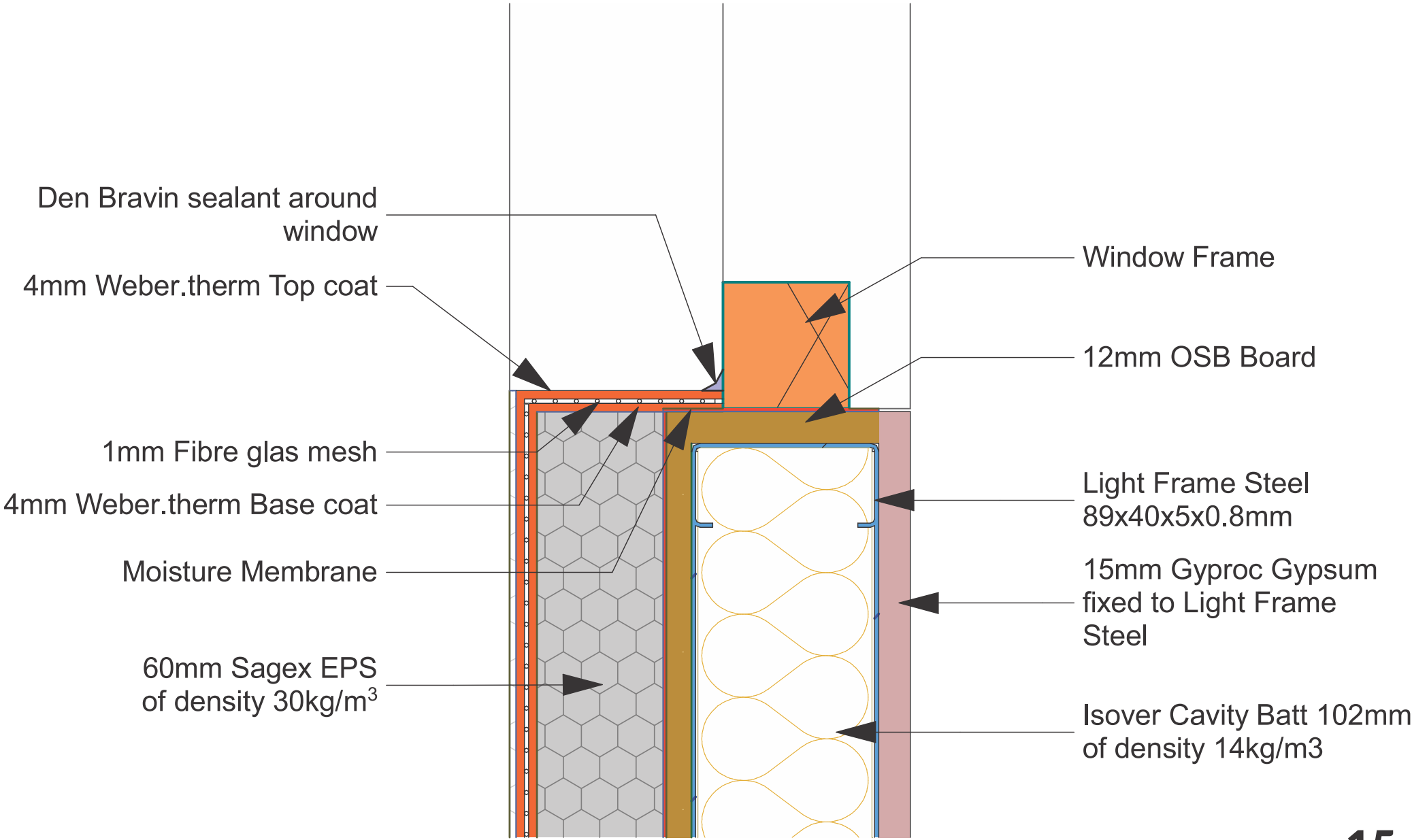
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Windows



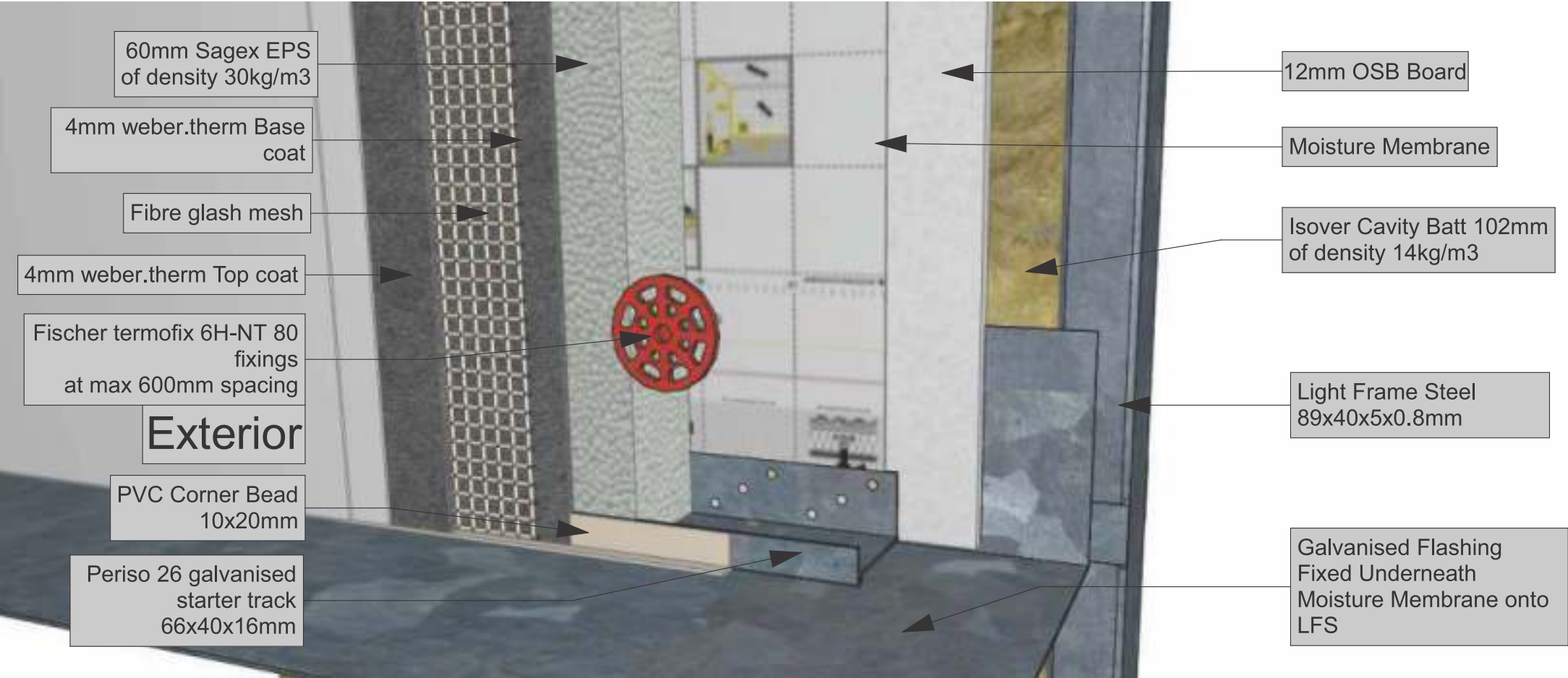
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Windows



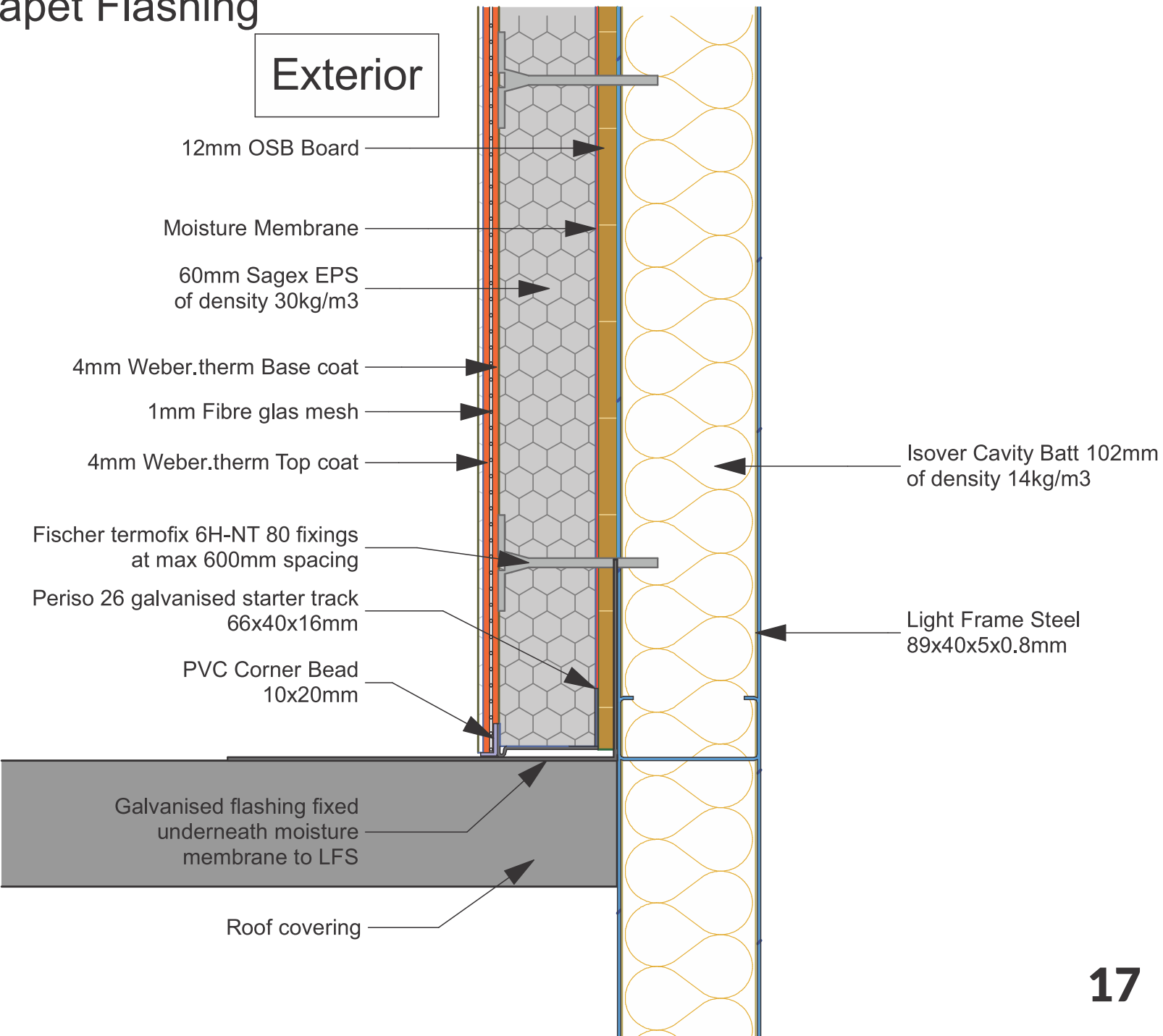
STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

Waterproofing - Parapet Flashing



STANDARD DEWCOR EXTERNAL WALL PLASTER - ETICS

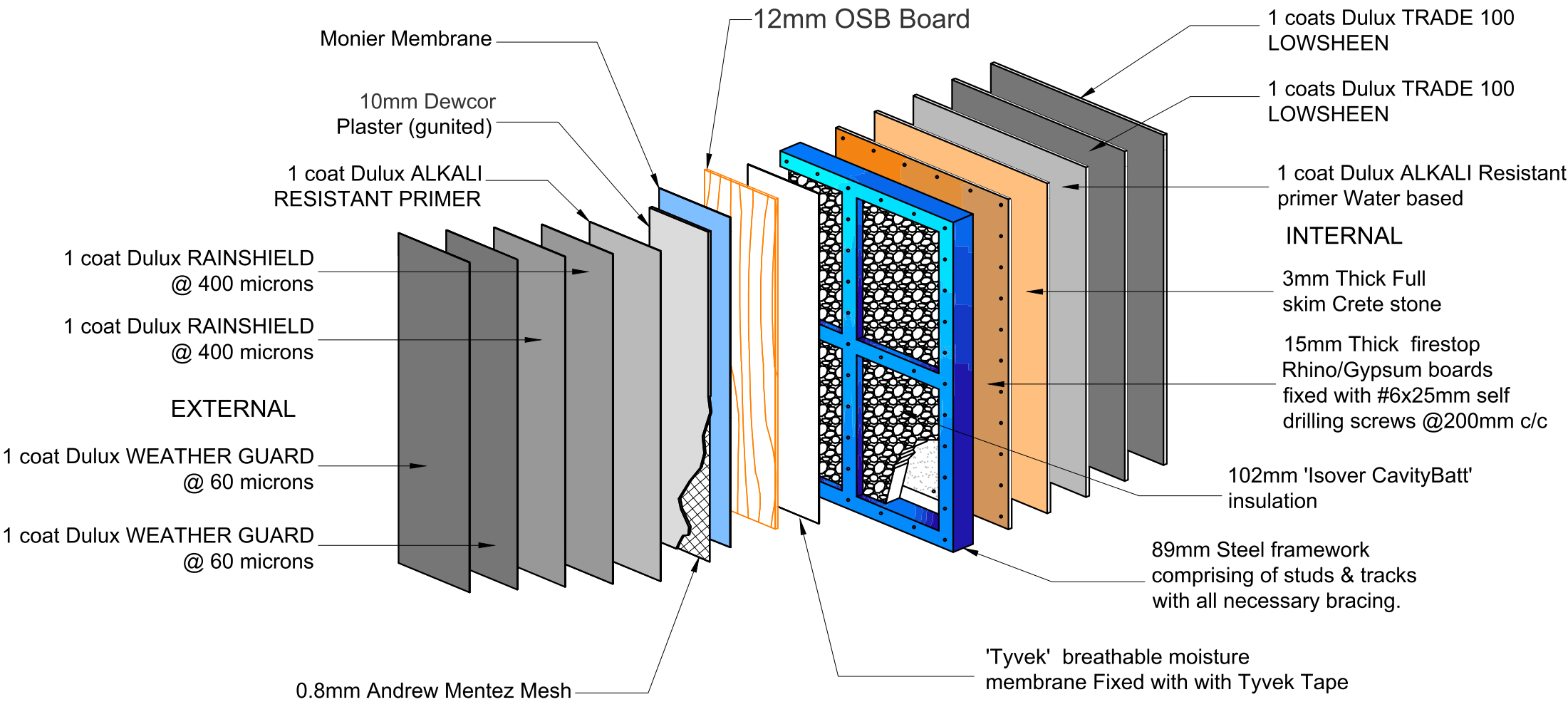
Waterproofing - Parapet Flashing



PLASTERED SINGLE EXTERNAL WALLS SAMPLE

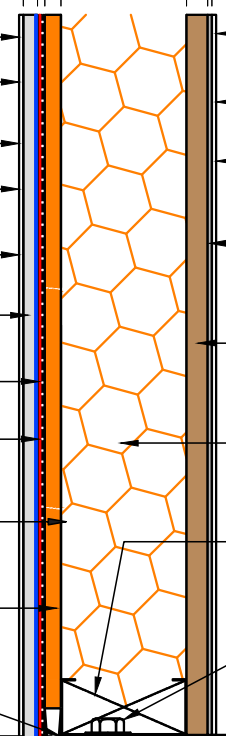


PLASTERED EXTERNAL WALLS



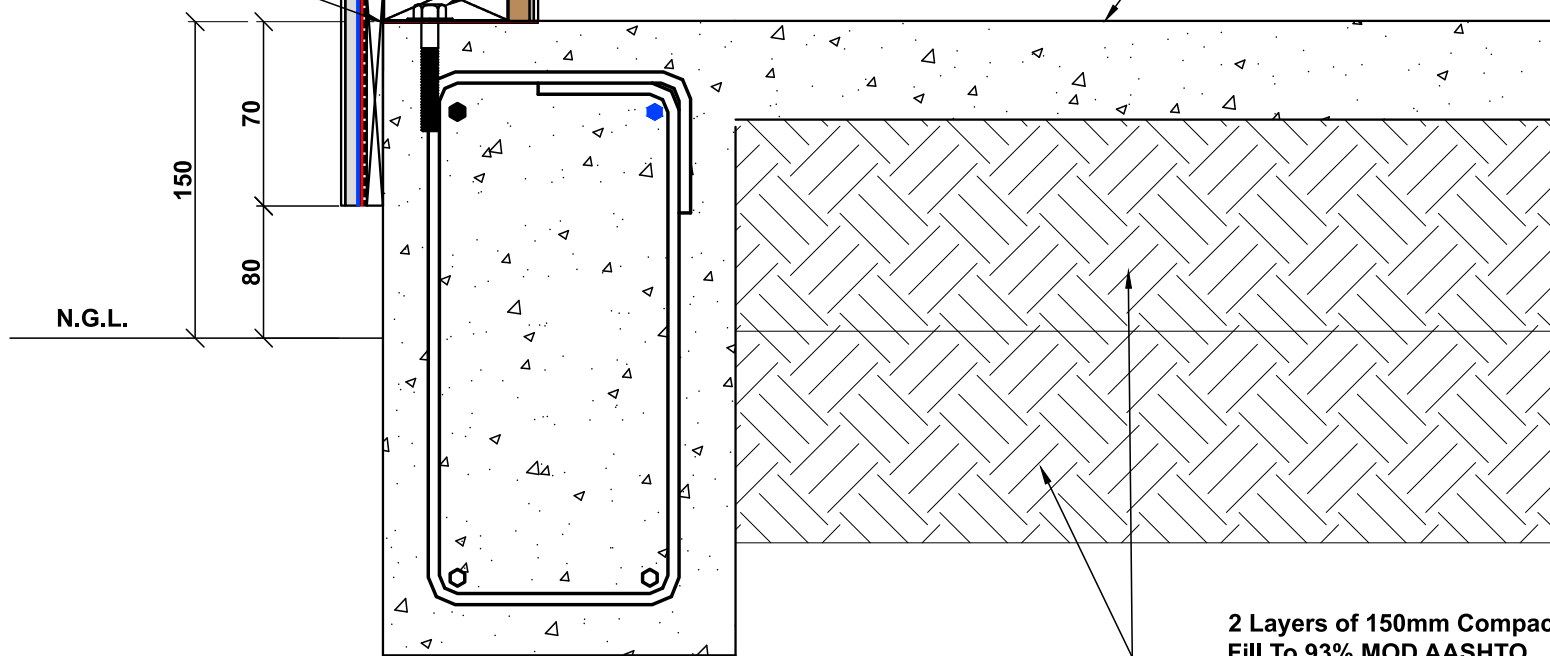
External Wall System:	
R value:	2.78
Fire Rating :	30min
Sound insulation:	48d

1 coat WEATHERSMOOTH @ 60 microns -
1 coat WEATHERSMOOTH @ 60 microns -
1 coat RAINSHIELD @ 400 microns -
1 coat RAINSHIELD @ 400 microns -
1 coat ALKALI RESISTANT PRIMER -
10mm Rancor Plaster (gunited) -
1mm Mesh Zinc alloy -
1mm Coverland Membrane -
'Tyvek' breathable moisture membrane
Fixed with with Tyvek Tape
12mm OSB Board fixed with #3.5x32mm
self drilling screws @200mm c/c
250 micron DPC —————



- 1 coats Dulux TRADE 100 LOWSHEEN
- 1 coats Dulux TRADE 100 LOWSHEEN
- 1 coat Dulux ALKALI Resistant primer Water based
- 3mm Thick Full skim Crete stone
- 15mm Thick 'Lafarge' firestop gypsum boards fixed with 6x25mm self drilling screws @200mm c/c
- 102mm 'Isover' Cavity Batt Insulation
- 89mm Steel framework comprising of studs & tracks with all necessary bracing.
- THD 10 x 80 Mechanically Galvanized Chemical Masonry Anchor With 44mm Washer

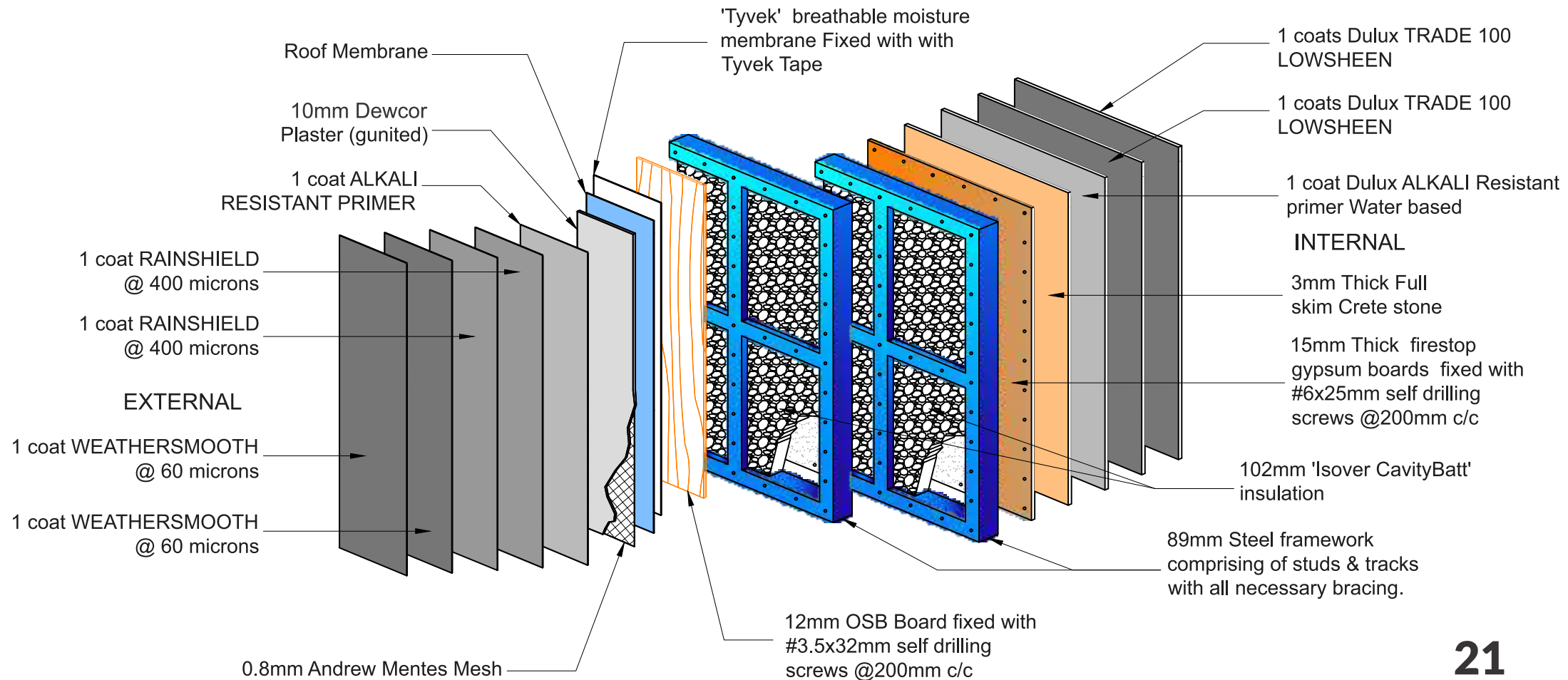
- **Surface Bed**



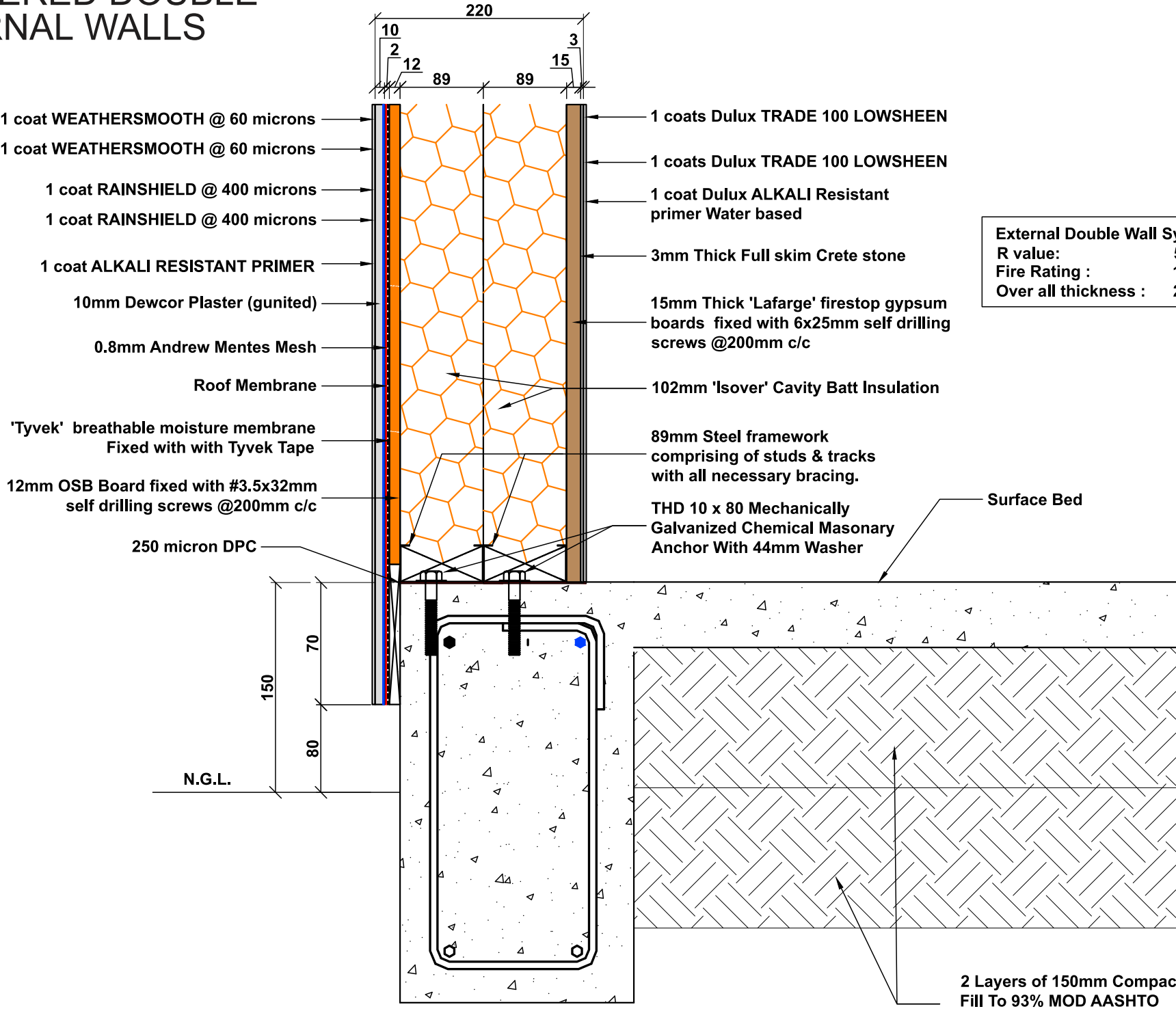
20

PLASTERED DOUBLE EXTERNAL WALLS

External Double Wall System:
R value: 5.5
Fire Rating : 1 Hour
Over all thickness : 220mm



PLASTERED DOUBLE EXTERNAL WALLS



External Double Wall System:	
R value:	5.5
Fire Rating :	1 Hour
Over all thickness :	220mm

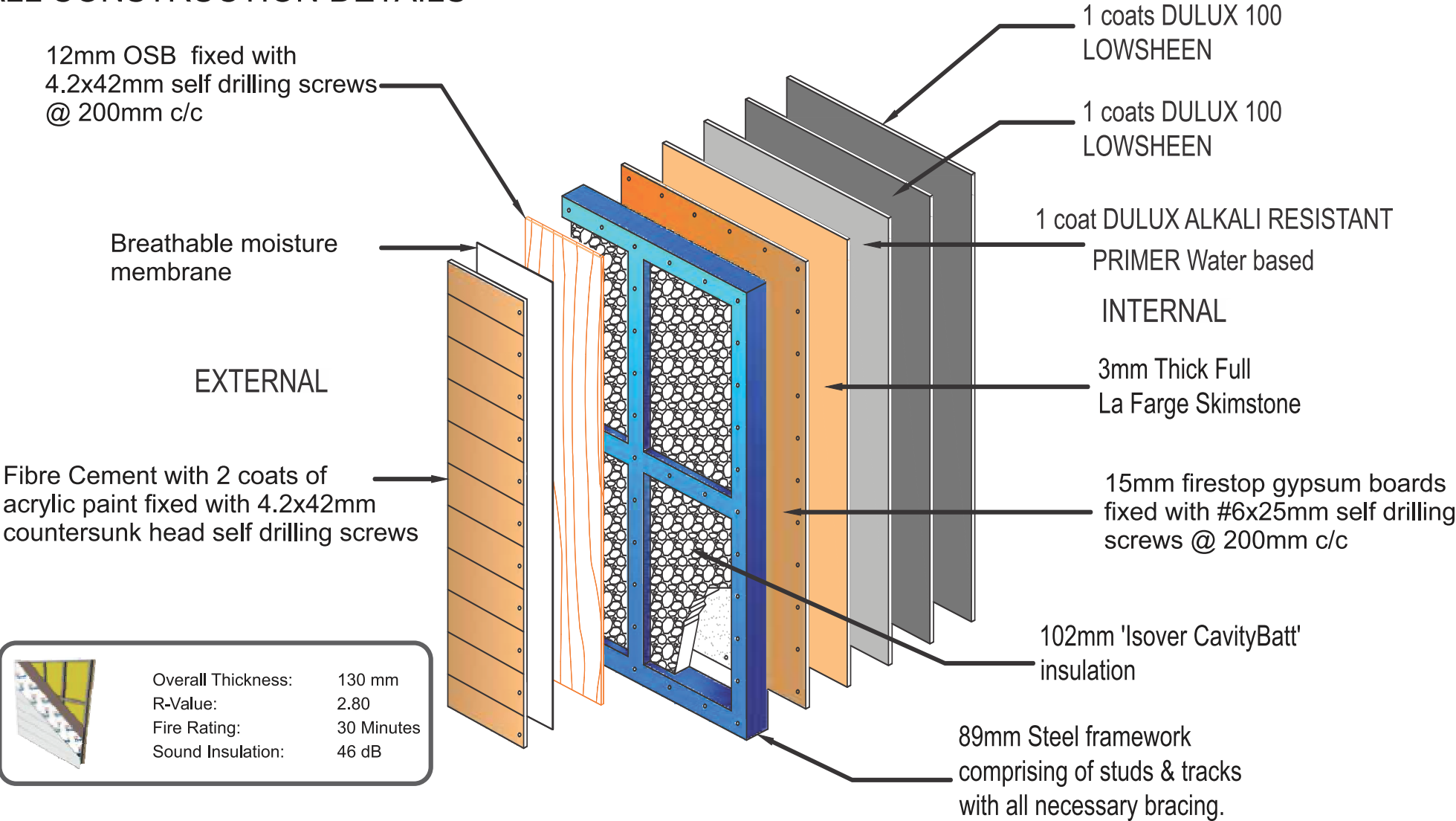
SHIPLAP EXTERNAL WALLS

WALL EXAMPLE

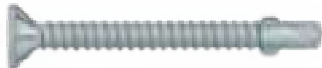


SHIPLAP WALLS

WALL CONSTRUCTION DETAILS



Fixture C
OSB to LSF Panel
4.2x42 mm



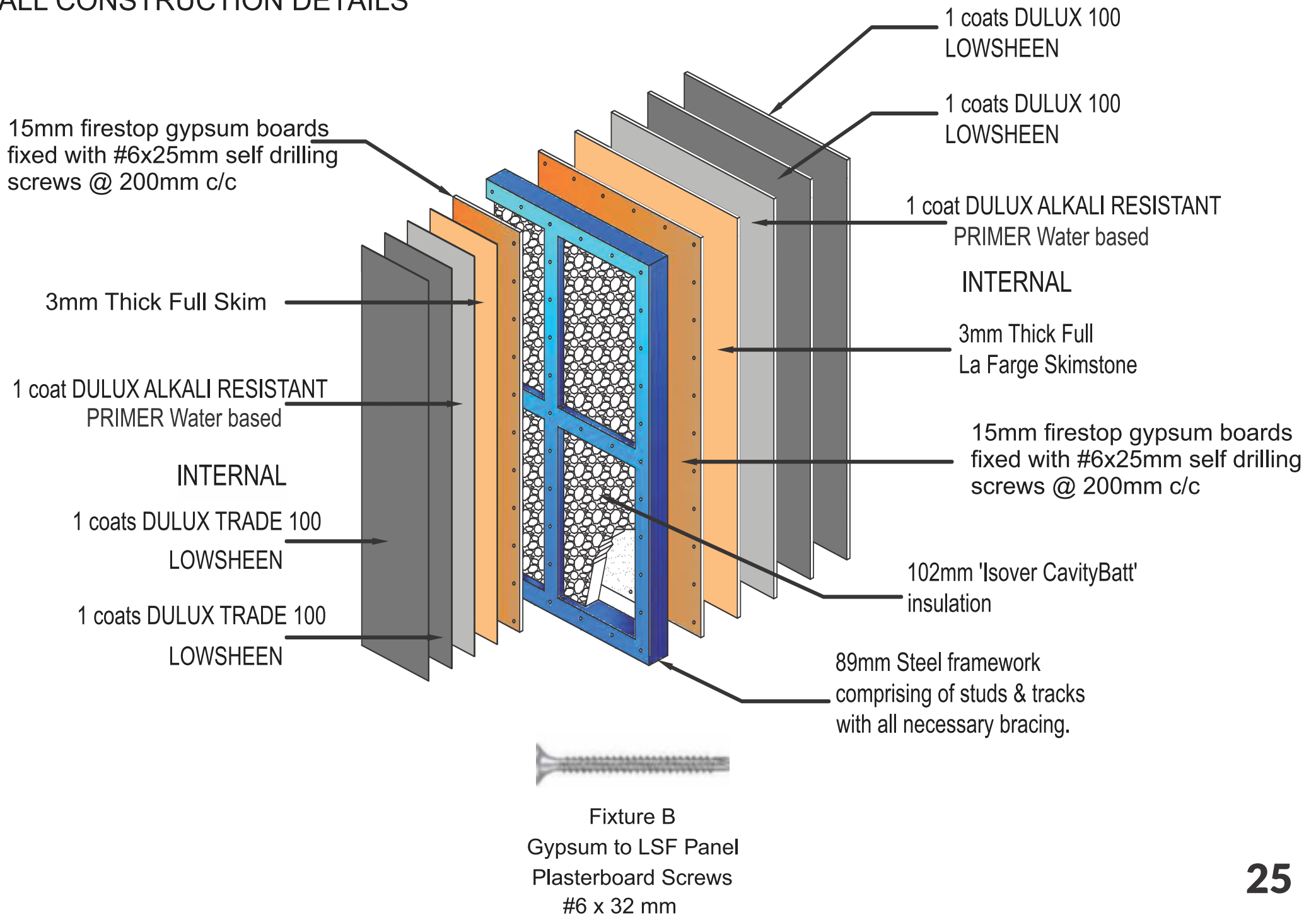
Fixture C
Shiplap to LSF Panel
4.2x42 mm



Fixture B
Gypsum to LSF Panel
Plasterboard Screws
#6 x 25 mm

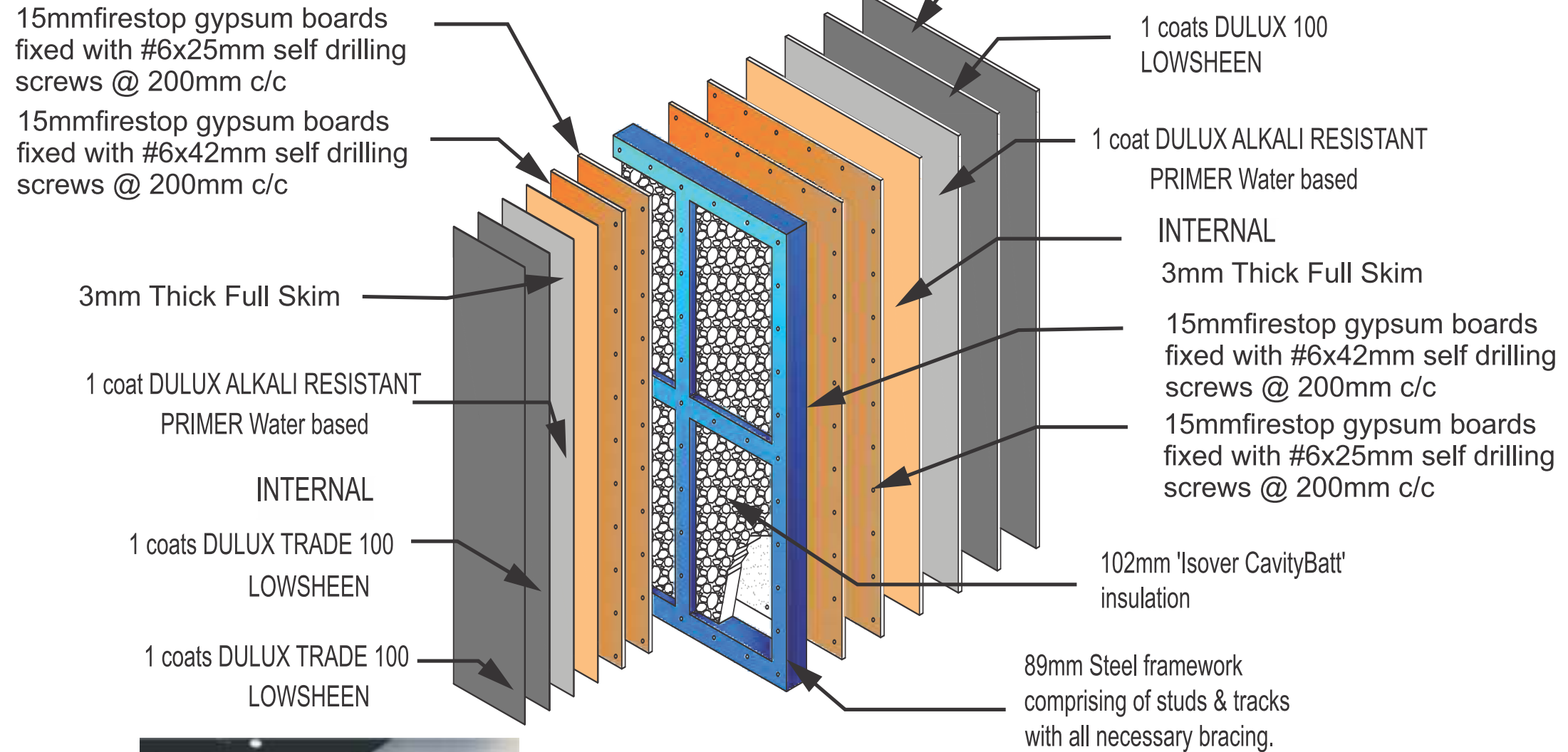
INTERNAL WALLS

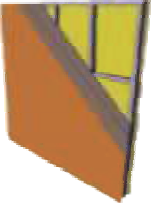
WALL CONSTRUCTION DETAILS



INTERNAL TWO HOUR FIRE RATED WALLS

WALL CONSTRUCTION DETAILS





Overall Thickness:	160 mm
Approximate Weight:	45.5 kg / m ²
R-Value:	3.07
Fire Rating:	120 Minutes
Sound Insulation:	53 dB



Fixture F
Gypsum to LSF Panel
Black Plasterboard Screws
#6 x 41 mm

TWO HOUR FIRE RATED WALLS

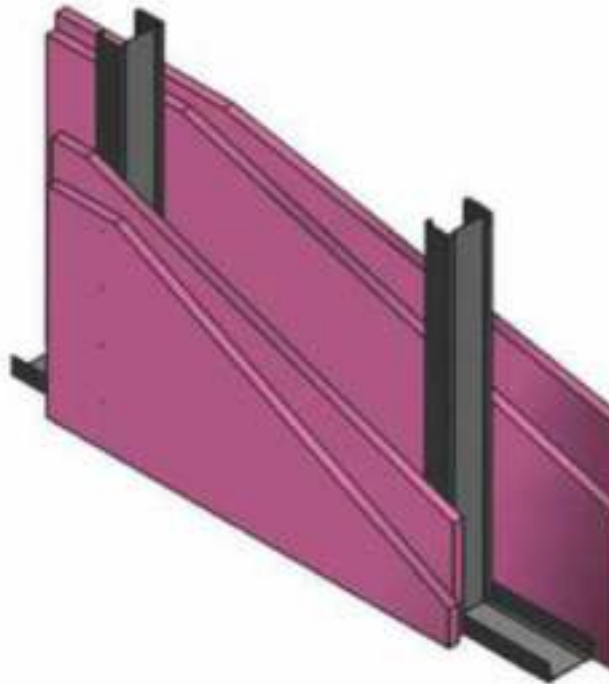
TECHNICAL SPECIFICATIONS

120 MINUTE FIRE RATED INTERNAL PARTITION SYSTEM:

- Non-Load Bearing Drywall System
- 15 mm Technical Fire Check Plasterboard-Double Layer Each Side

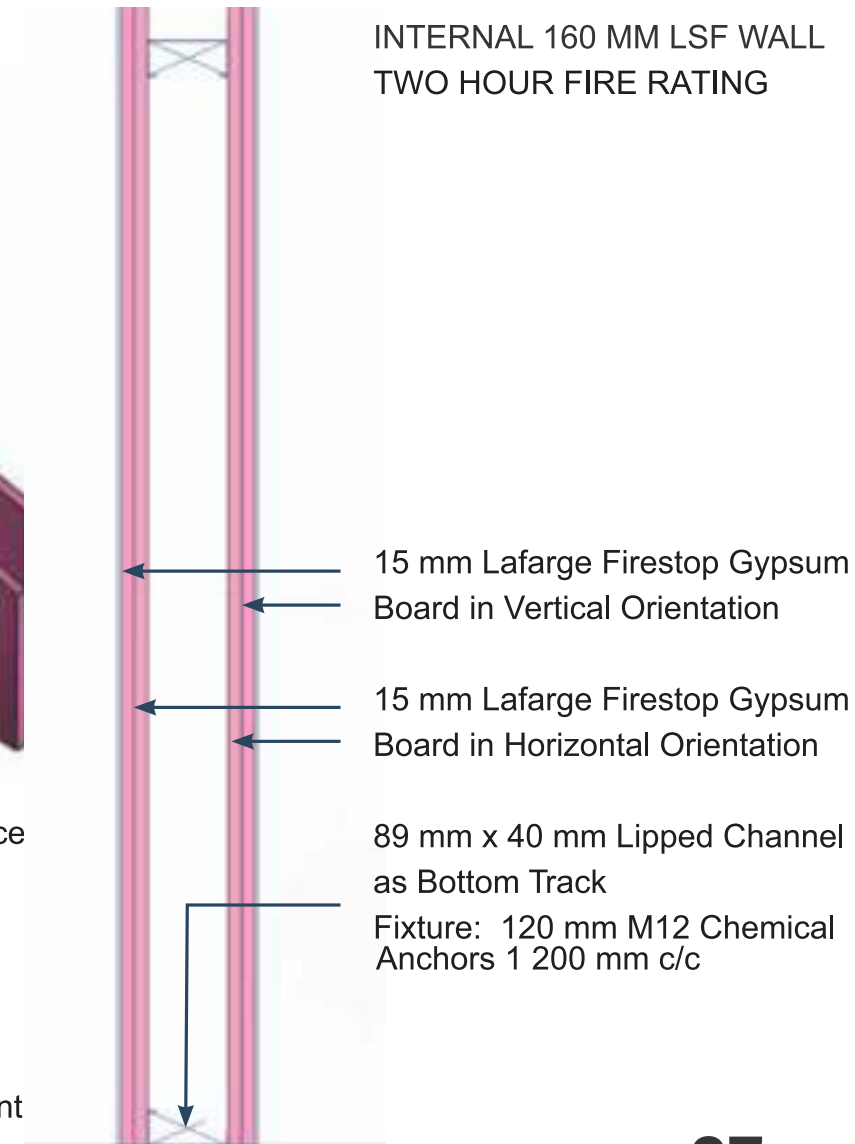
MATERIAL USED:

A: 89 mm LSF Steel Stud
B: 89 mm LSF Steel Track
C: 15mm Fire Check Plaster Board
32 mm & 42 mm Drywall Screws
Lafarge Drywall Jointing System
Floor & Ceiling Finishes as per Specification



APPLICATION DETAILS:

1. Set Lafarge steel studs spaced at 600 mm centre to centre (c/c) into steel track at floor & ceiling.
2. Apply a single layer of 15 mm Technical Fire Check plasterboard vertical to both sides, using 32 mm drywall screws spaced at 200 mm c/c, stagger joints.
3. Apply a face layer of 15 mm Technical Fire Check plasterboard horizontal to both sides, using 42 mm drywall screws spaced at 200 mm c/c, stagger joints.
4. Apply tape & joint according to specification.
5. Acoustic performance requires sealing between track, floor, ceiling and any other abutment.
6. Stagger the plasterboard joints in the system.
7. Maximum partition height is 4.5 m.





Floors

JOIST FLOOR CONSTRUCTION EXAMPLES



Completed Suspended Light Steel Frame Joist Floor



Light Steel Frame Joist Floor Anchored to
Light Steel Frame Ring Beam



Light Steel Frame Ring Beam

JOIST FLOOR CONSTRUCTION EXAMPLES



Installation of Floor Boards



Installation of LSF Wall on LSF Joist Floor

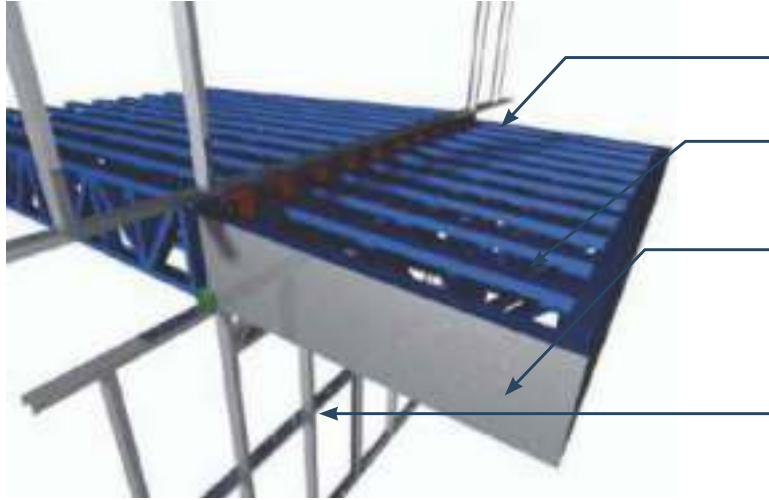


Suspended Joist Floor with Internal Cantilever



Finishing of Exposed Suspended Floor Joists

JOIST FLOOR CANTILEVERS



Light Steel Frame Joist Floor Balcony Cantilever

Light Steel Frame Filler Box

Fixture: #10 x 4.8x16 mm Wafer Head Screws

1.2 mm Galvanised Plate

Fixture: #10 x 4.8x16 mm Wafer Head Screws
Stitched to Light Steel Frame Joist Cantilever

Light Steel Frame Wall Panel

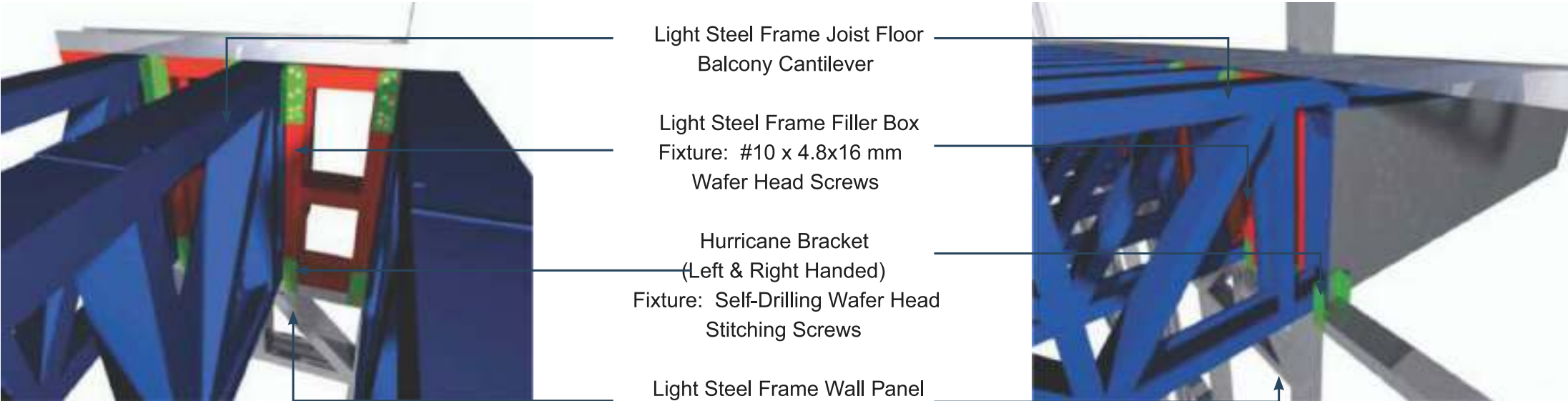
NOTE:

- External Cantilevers Minimum Step: 75 mm
- External Cantilevers Minimum Slope: 1°
- Cantilevers Maximum Supported Span: 1 500 mm



JOIST FLOOR CANTILEVERS

Anchoring a LSF Cantilever to a LSF Wall Panel using Hurricane Bracket

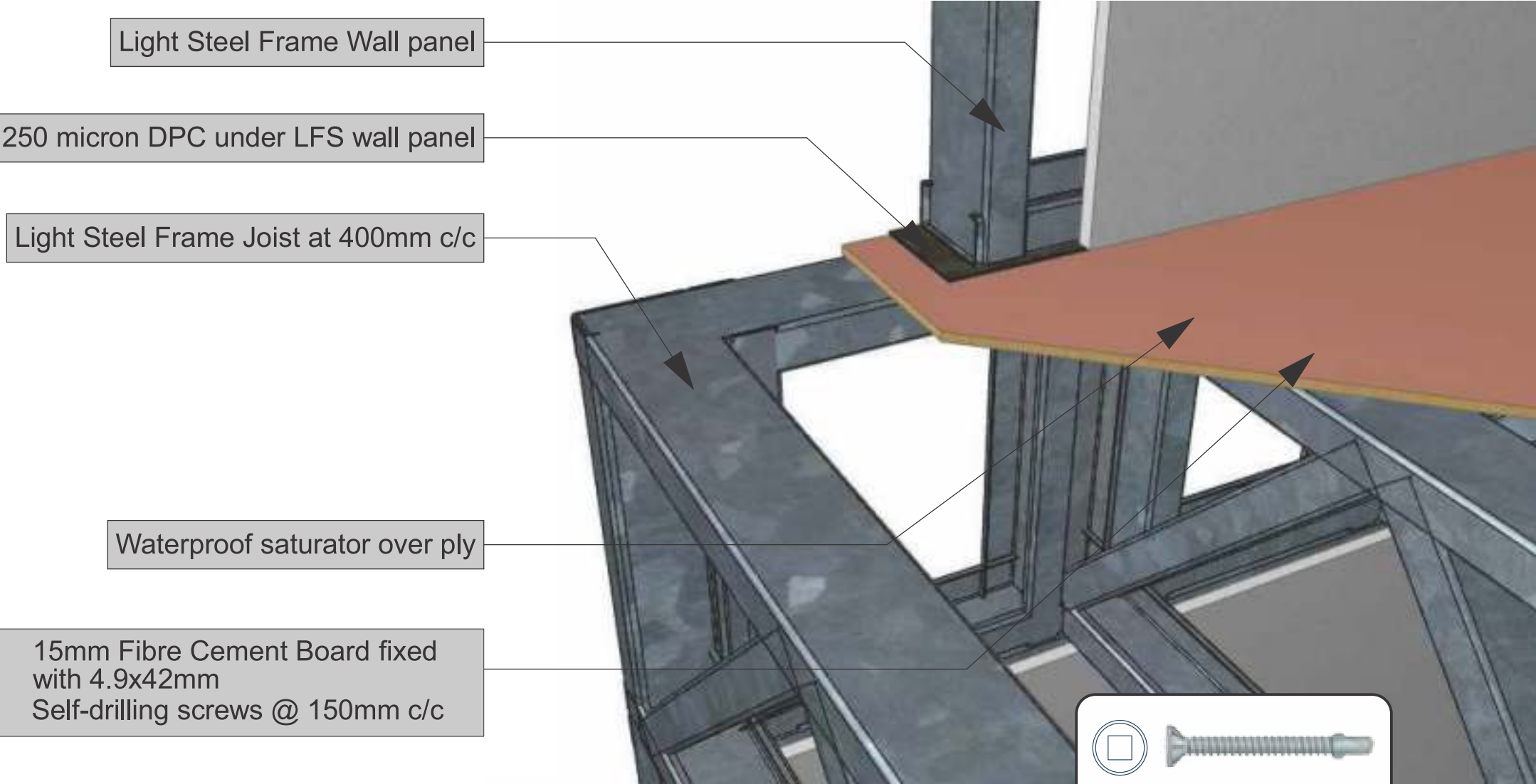


To prevent any toppling & water penetrating the structure, iller panels must be installed.
Filler panels to be installed using FrameCAD Tri-Fix Brackets.



Light Steel Frame Cantilever Joist Floor

JOIST FLOOR: FLOOR BOARDS CONSTRUCTION DETAILS



Fixture D
Floor Screw
Cement Sheet Screws
4.9x42 mm

JOIST FLOOR: FLOOR BOARDS
CONSTRUCTION DETAILS

Light Steel Frame Joist

2x 50mm layers Genesis 60D
acoustic insulation



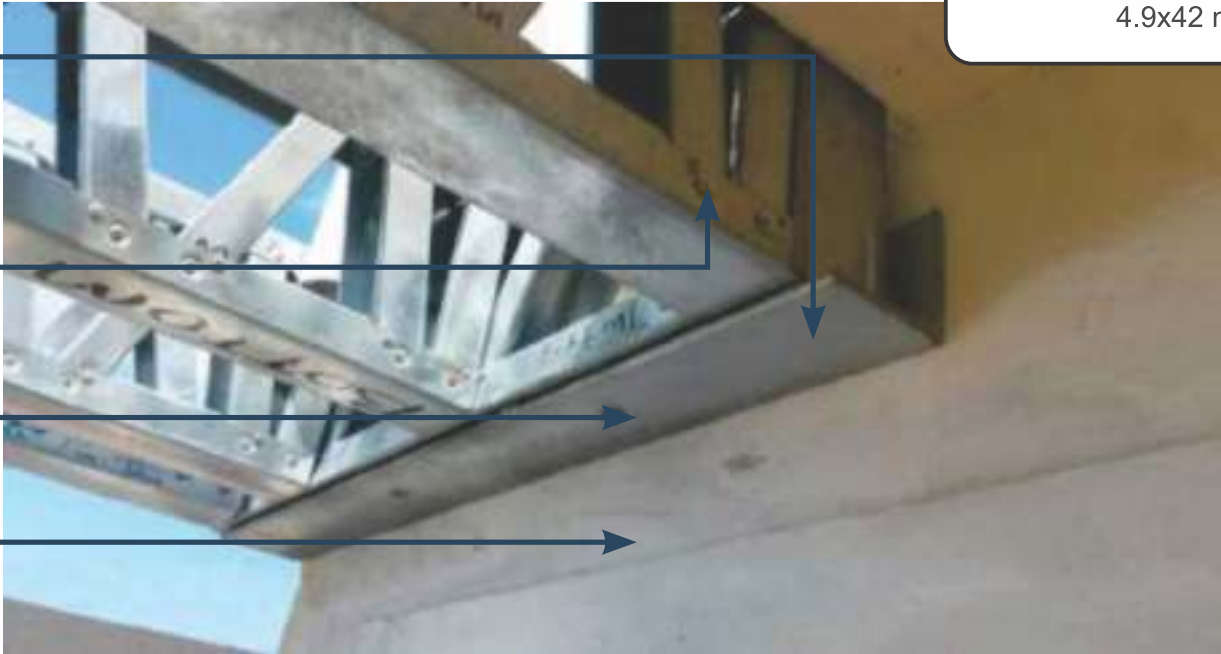
Fixture D
Floor Screw
Cement Sheet Screws
4.9x42 mm

100 mm x 100 mm x 8 mm
Galvanised Angle

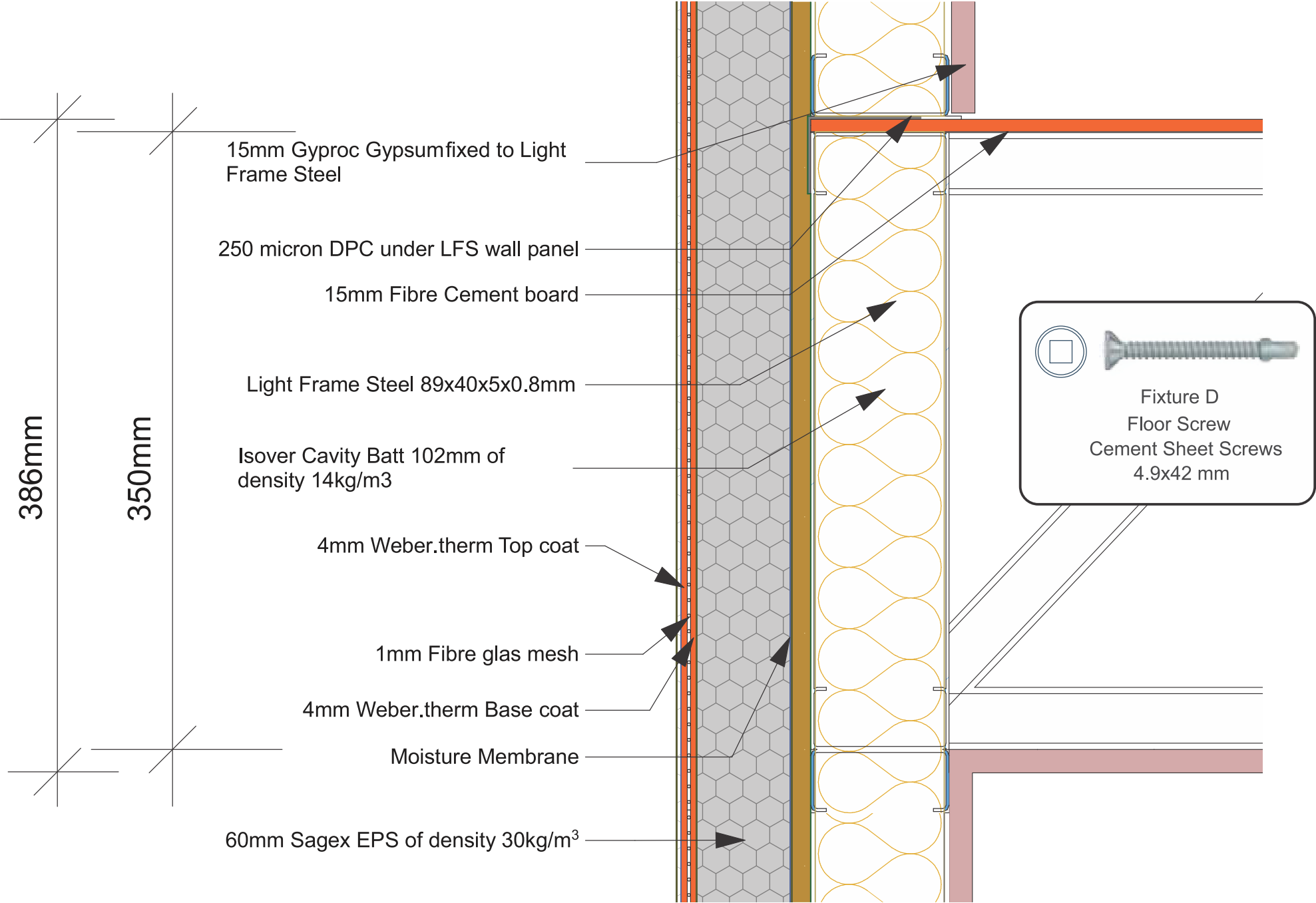
Light Steel Frame Joist

M12 Bolt Through

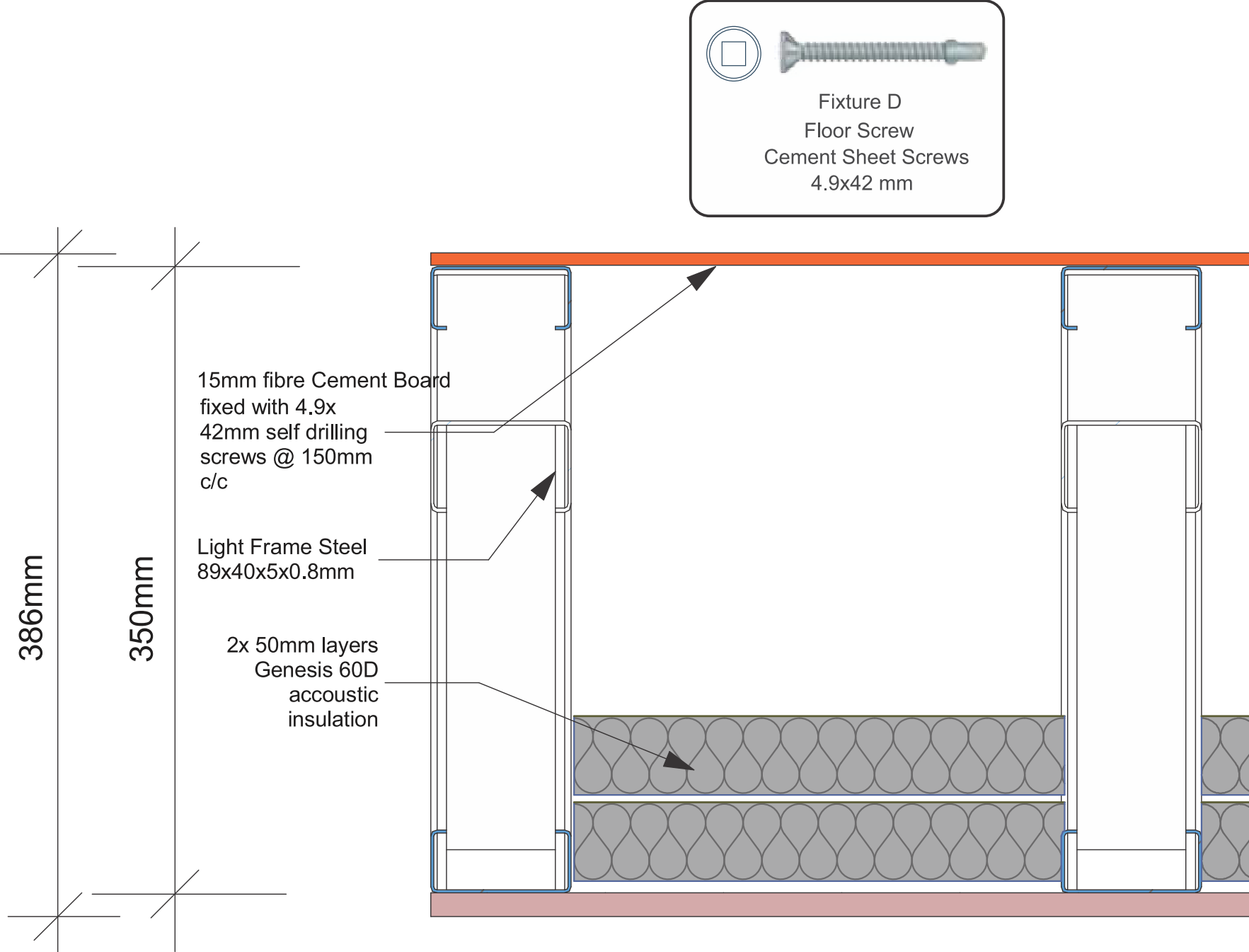
Existing Masonry Wall



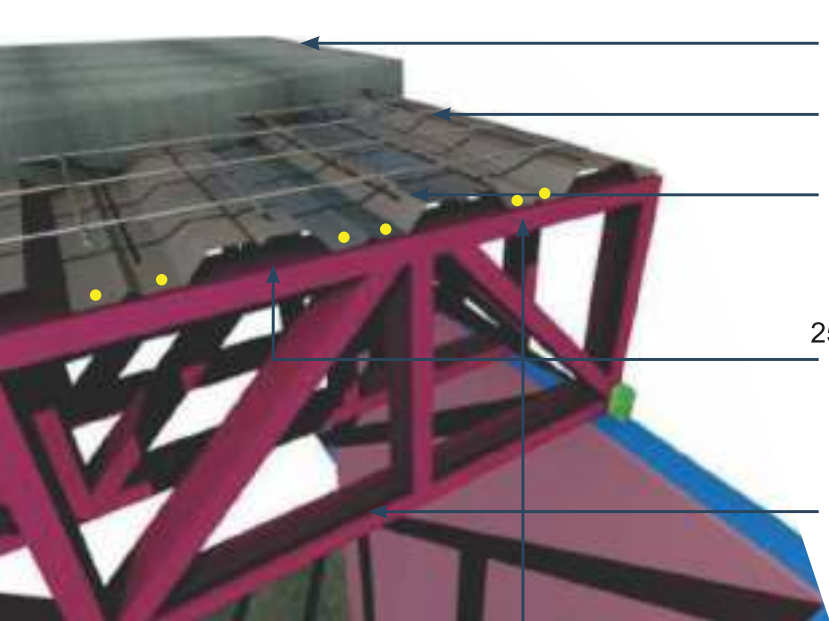
JOIST FLOOR: FLOOR BOARDS CONSTRUCTION DETAILS



JOIST FLOOR: FLOOR BOARDS CONSTRUCTION DETAILS



JOIST FLOOR: STRUCTURAL CONCRETE CONSTRUCTION DETAILS



Total Thickness of Floor: 430 mm

80 mm 25 Mpa Structural Concrete

Reference 193 Reinforcing Mesh

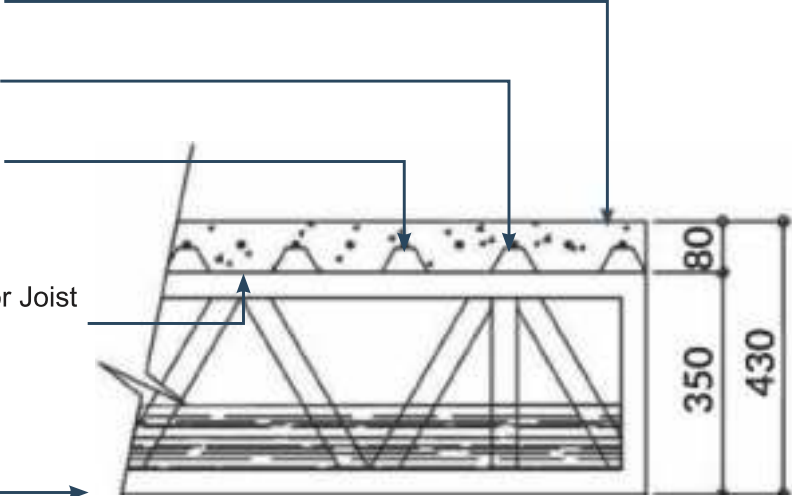
0.5 mm Galvanised IBR Sheetting
Fixture: 4.8x16 mm Wafer Head Screws
to the LSF Joist

250 micron DPC between IBR Sheetting & Floor Joist

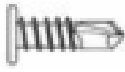
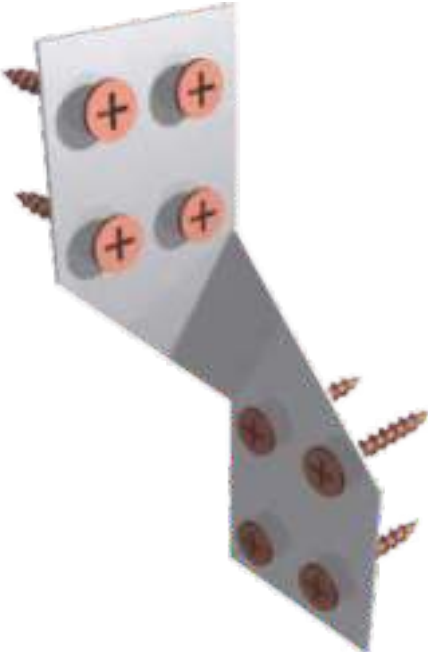
Light Steel Frame Floor Joist
Fixture: 4.8x16 mm Wafer Head Screw &
Hurricane bracket to the LSF Wall Panel

Light Steel Frame Wall Panel

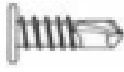
Kare Industries Wafer Head Screws
SD1016W3CL2 4.8x16 mm



HURRICANE BRACKETS



Joist to Wall Panel
Kare Industries Wafer Head Screws
SD1016W2Z3FP 4.8x16 mm



IBR to Joist
Kare Industries Wafer Head Screws
SD1016W2Z3FP 4.8x16 mm

JOIST FLOOR: STRUCTURAL CONCRETE
CONSTRUCTION DETAILS



JOIST FLOOR: STRUCTURAL CONCRETE CONSTRUCTION EXAMPLES



JOIST FLOOR: STRUCTURAL CONCRETE CONSTRUCTION EXAMPLES



FLOOR: VOIDCON CONCRETE SLAB

VOIDCON STEEL DECKING SYSTEM

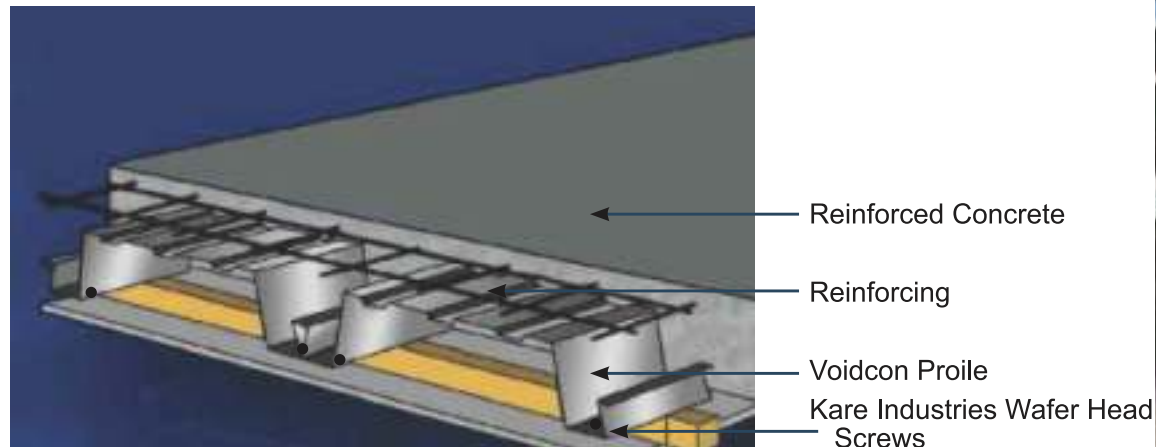
The Voidcon Steel Decking System is a composite suspended slab system, which is suitable for industrial, business and private structures.

Galvanized steel proiles are laid in position, whereafter concrete is poured inside the proiles.

- Concrete Provides Strength
- Steel Provides Stability
- Less Concrete than Customary Decking Systems
- Substantial Cost Savings

Three Outstanding Features:

- Permanent Decking: Provides a straightforward interlocking deck to help mass wet concrete & other construction loads
- Composite Action: Not only acts as permanent shuttering, but serves as tensile support, bringing about a composite activity with the concrete
- T-Beam System: The proile is based on a T-Beam System that gives beams & voids a large reduction in in-situ concrete volumes



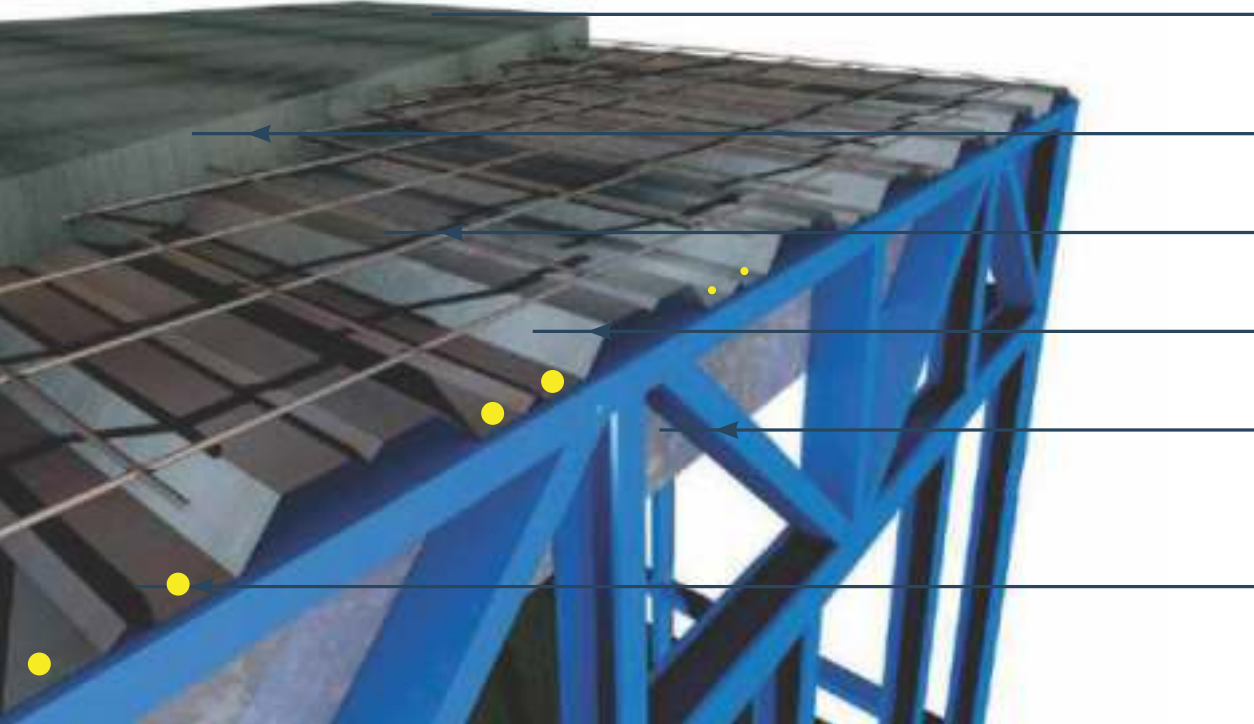
Voidcon Floor

SD1016W3CL2 4.8x16 mm Integrated Ring Beam



FLOOR: VOIDCON CONCRETE SLAB

CONSTRUCTION DETAILS



Depth of Concrete must be between 170 mm & 300 mm, as per Engineer's Speciiications.

25 Mpa Fibre Reinforced Concrete

Reference 193 Reinforcing Mesh

Voidcon Galvanised Proile Sheetting

Integrated Ring Beam

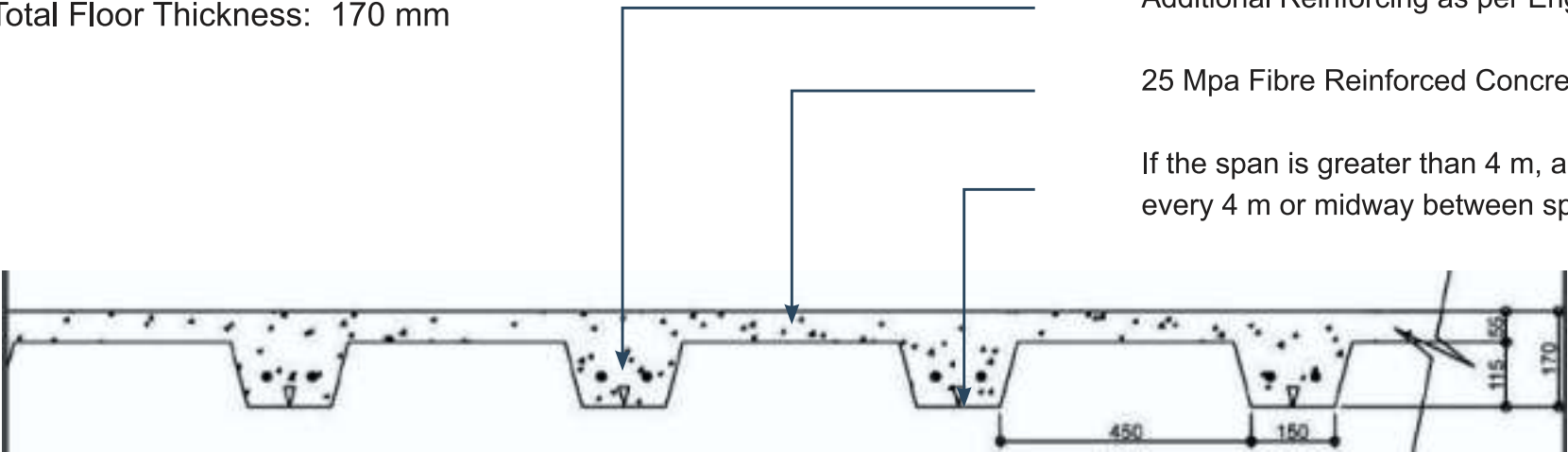
Kare Industries Wafer Head Screws
SD1016W2Z3FP 4.8x16 mm

Total Floor Thickness: 170 mm

Additional Reinforcing as per Engineer's Speciiications

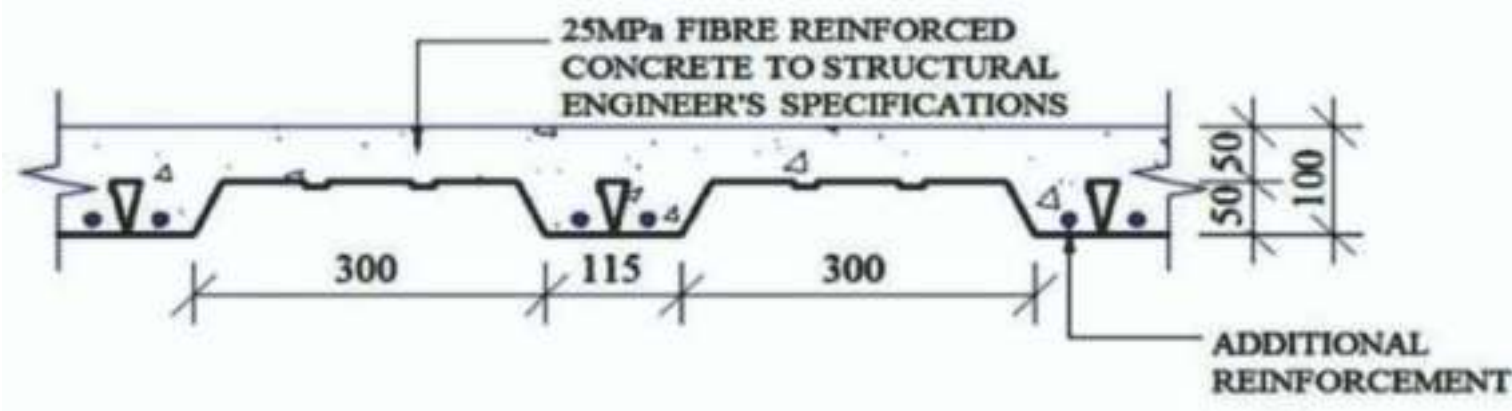
25 Mpa Fibre Reinforced Concrete as per Engineer's Speciiications

If the span is greater than 4 m, additional propping must be inserted every 4 m or midway between spans smaller than 8 m



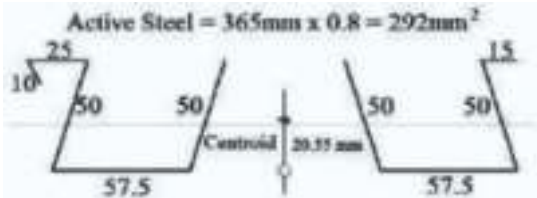
JOIST FLOOR: VOIDCON CONCRETE SLAB

DESIGN TABLES: 100MM SLAB



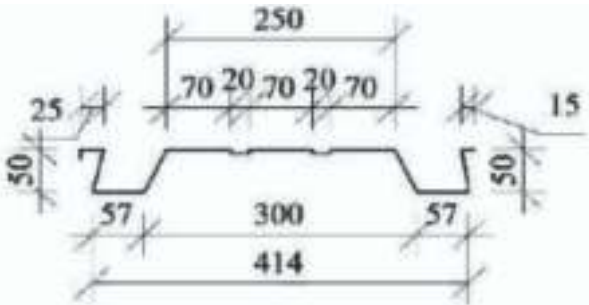
Design Parameters and Assumptions

- Steel : 0.8mm ISQ230 (Galv. Z275)



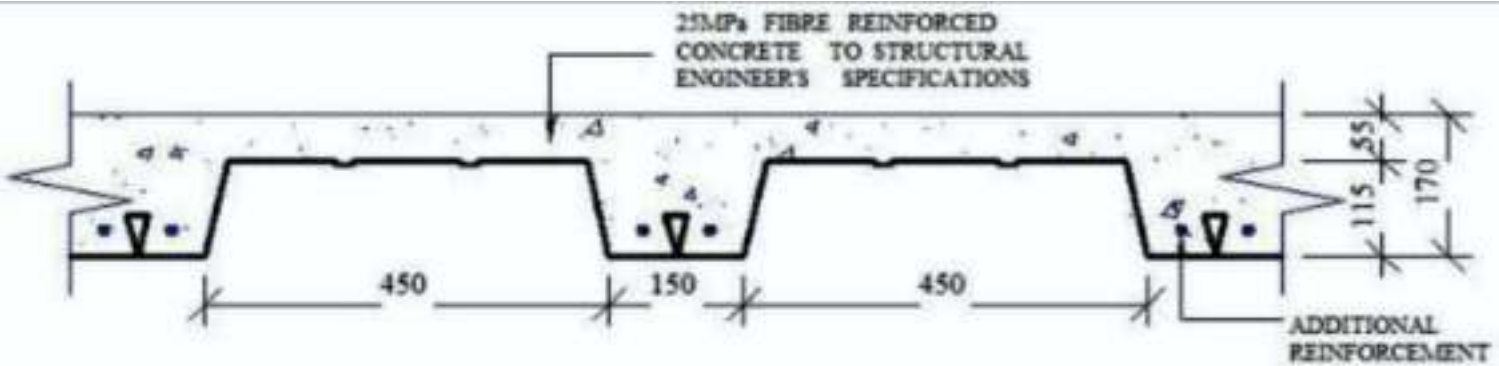
- Concrete volume : $0.07\text{m}^3/\text{m}^2$
- Temporary propping to be at 2m centers.
- Deflections are not calculated but are controlled by restricting the span to effective depth ratios in accordance with the Code of Practice.
- N.B.** All tabulated values serve as a guide only, and should be certified and approved by a civil/structural engineer.

	Area of Reinforcement $f_y = 230\text{N/mm}^2$ $f_y = 450\text{N/mm}^2$	Moment of Resistance $M_r =$ $0.87 \times f_y \times A_{sxz}$	Total Factored Uniformly Distributed Superimposed Load					
			1.5kN/m ² $W_u =$	2.5kN/m ² $W_u =$	3.0kN/m ² $W_u =$	4.0kN/m ² $W_u =$	5.0kN/m ² $W_u =$	7.5kN/m ² $W_u =$
			5.41	7.01	7.81	9.41	11.01	15.01
VP 50 only	292	10.278	3.90	3.43	3.25	2.96	2.73	2.34
+ 1xY8	50.3	14.727			3.89	3.54	3.27	2.80
+ 1xY10	78.5	16.669					3.48	2.98
+ 2xY8	101	18.219						3.12
+ 1xY12	113	19.045						3.19
+ 2xY10	157	22.075						3.43
Maximum Span (L) in m								



JOIST FLOOR: VOIDCON CONCRETE SLAB

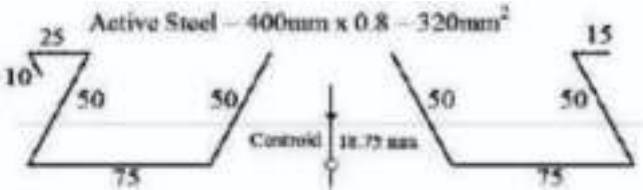
DESIGN TABLES: 170MM SLAB



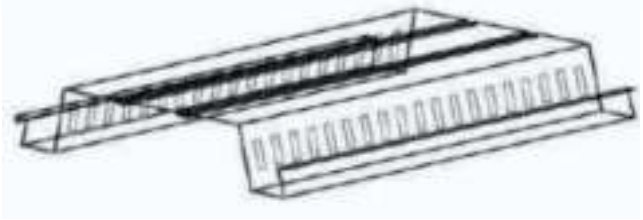
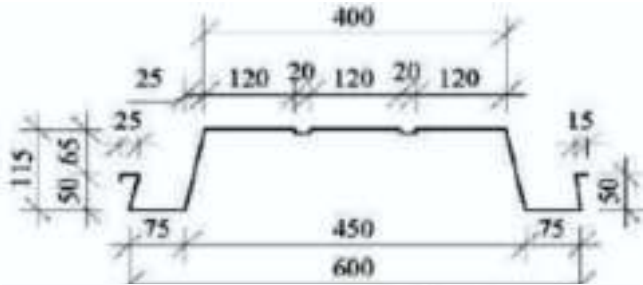
	Area of Reinforcement $f_y = 230\text{N/mm}^2$ $f_y = 450\text{N/mm}^2$	Moment of Resistance $M_r = 0.87 \times f_y \times A_{s_xz}$	Total Factored Upwardly Distributed Superimposed Load					
			1.5kN/m ² $W_u = 6.03$	2.5kN/m ² $W_u = 7.63$	3.0kN/m ² $W_u = 8.43$	4.0kN/m ² $W_u = 10.03$	5.0kN/m ² $W_u = 11.63$	7.5kN/m ² $W_u = 15.63$
VP 115 only	320	15.261	4.50	4.00	3.81	3.49	3.24	2.79
+ 1xY8	50.3	19.954	5.15	4.57	4.35	3.99	3.70	3.20
+ 1xY10	78.5	22.586	5.47	4.87	4.63	4.24	3.94	3.40
+ 2xY8	101	24.685		5.09	4.84	4.44	4.12	3.55
+ 1xY12	113	25.805		5.20	4.95	4.54	4.21	3.63
+ 2xY10	157	29.910			5.33	4.88	4.54	3.91
+ 1xY16	201	34.016				5.21	4.84	4.17
+ 2xY12	226	36.348				5.38	5.00	4.31
+ 3xY10	236	37.282					5.06	4.37
+ 3xY12	339	46.892						4.90
+ 2xY16	402	52.771						5.20
Maximum Span (L) in m								

Design Parameters and Assumptions

Steel : 0.8mm ISQ230 (Galv. Z275)

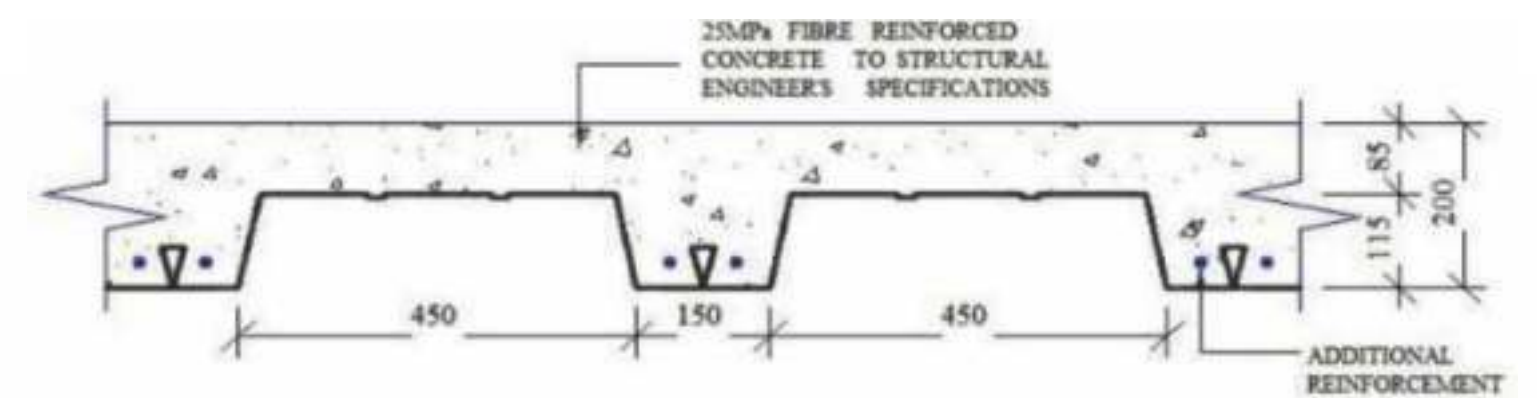


- Concrete volume : 0.09m³/m²
- Temporary propping to be at 2m centers.
- Deflections are not calculated but are controlled by restricting the span to effective depth ratios in accordance with the Code of Practice.
- **N.B.** All tabulated values serve as a guide only, and should be certified and approved by a civil/structural engineer.



JOIST FLOOR: VOIDCON CONCRETE SLAB

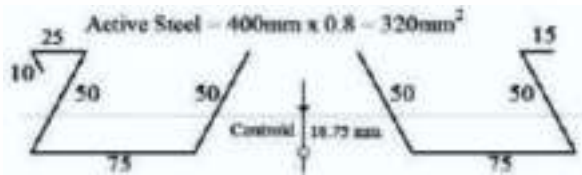
DESIGN TABLES: 200MM SLAB



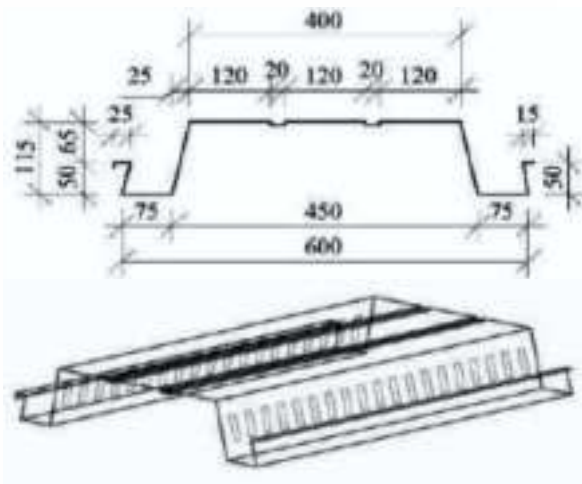
	Area of Reinforcement $f_y = 230\text{N/mm}^2$ $f_y = 450\text{N/mm}^2$	Moment of Resistance $M_r = 0.87xf_yxAs_{xz}$	Total Factored Uniformly Distributed Superimposed Load					
			1.5kN/m ² $W_u =$ 6.89	2.5kN/m ² $W_u =$ 8.49	3.0kN/m ² $W_u =$ 9.29	4.0kN/m ² $W_u =$ 10.89	5.0kN/m ² $W_u =$ 11.63	$W_u =$ 15.63
VP 115 only	320	18.356	4.62	4.16	3.97	3.67	3.55	3.07
+ 1xY8	50.3	24.001	5.28	4.75	4.55	4.20	4.06	3.50
+ 1xY10	78.5	27.166	5.61	5.06	4.84	4.47	4.32	3.73
+ 2xY8	101	29.691	5.87	5.29	5.06	4.67	4.52	3.90
+ 1xY12	113	31.038	6.00	5.41	5.17	4.77	4.62	3.99
+ 2xY10	157	35.976	6.46	5.82	5.56	5.14	4.97	4.29
+ 1xY16	201	40.914		6.21	5.93	5.48	5.31	4.58
+ 2xY12	226	43.720		6.42	6.13	5.67	5.48	4.73
+ 3xY10	236	44.842			6.21	5.74	5.55	4.79
+ 3xY12	339	56.402				6.44	6.23	5.37
+ 2xY16	402	63.472					6.61	5.70
+ 4xY12	452	69.084						5.95
Maximum Span (L) in m								

Design Parameters and Assumptions

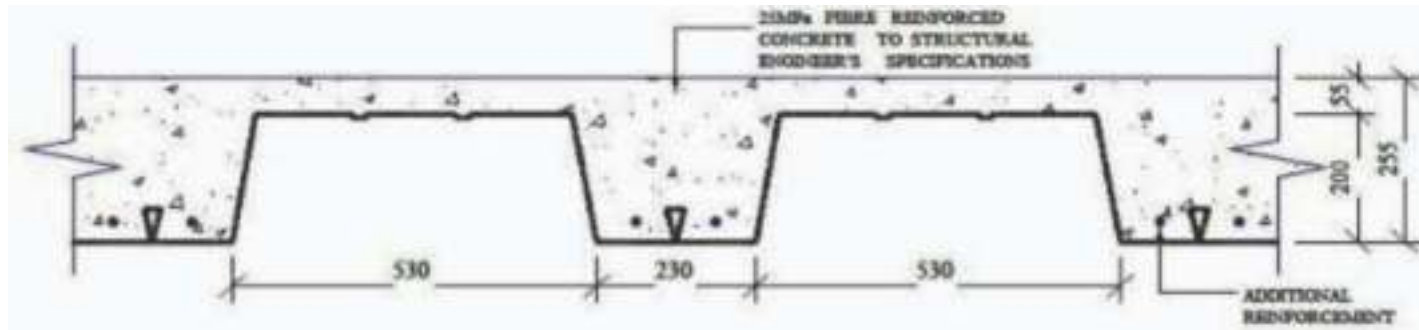
- Steel : 0.8mm ISQ230 (Galv. Z275)



- Concrete volume : 0.12m³/m²
- Temporary propping to be at 1,75m centers.
- Deflections are not calculated but are controlled by restricting the span to effective depth ratios in accordance with the Code of Practice.
- N.B.** All tabulated values serve as a guide only, and should be certified and approved by a civil/structural engineer.



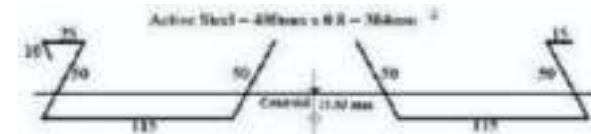
JOIST FLOOR: VOIDCON CONCRETE SLAB
DESIGN TABLES: 255MM SLAB



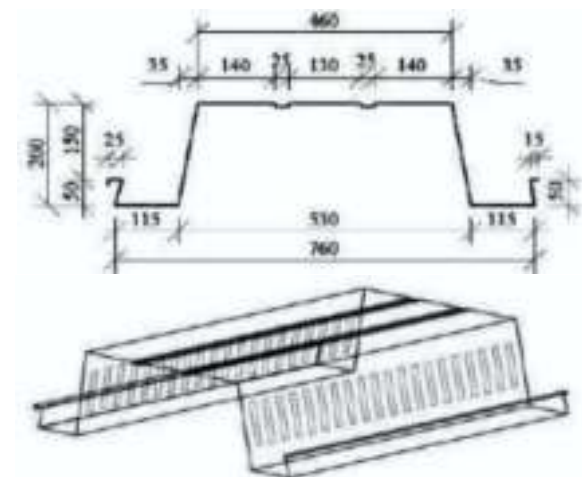
	Area of Reinforcement fy = 230N/mm² fy = 450N/mm²	Moment of Resistance Mr = 0.87xfyxAsxz	Total Factored Uniformly Distributed Superimposed Load					
			1.5kN/m²	2.5kN/m²	3.0kN/m²	4.0kN/m²	5.0kN/m²	7.5kN/m²
			Wu =	Wu =	Wu =	Wu =	Wu =	Wu =
			7.07	8.67	9.47	11.07	12.67	16.67
VP 200 only	384	22.950	5.09	4.60	4.40	4.07	3.81	3.32
+ 1xY8	50.3	28.832	5.71	5.16	4.93	4.56	4.27	3.72
+ 1xY10	78.5	32.130	6.03	5.44	5.21	4.82	4.50	3.93
+ 2xY8	101	34.761	6.27	5.66	5.42	5.01	4.68	4.08
+ 1xY12	113	36.164	6.40	5.78	5.53	5.11	4.78	4.17
+ 2xY10	157	41.309	6.84	6.17	5.91	5.46	5.11	4.45
+ 1xY16	201	46.454	7.25	6.55	6.26	5.79	5.42	4.72
+ 2xY12	226	49.378	7.47	6.75	6.46	5.97	5.58	4.87
+ 3xY10	236	50.547	7.56	6.83	6.53	6.04	5.65	4.92
+ 3xY12	339	62.591	8.41	7.60	7.27	6.72	6.29	5.48
+ 2xY16	402	69.958		8.03	7.69	7.11	6.65	5.79
+ 4xY12	452	75.805			8.00	7.40	6.92	6.03
+ 3xY16	603	93.462				8.22	7.68	6.70
+ 2xY20	628	96.386					7.80	6.80
			Maximum Span (L) in m					

Design Parameters and Assumptions

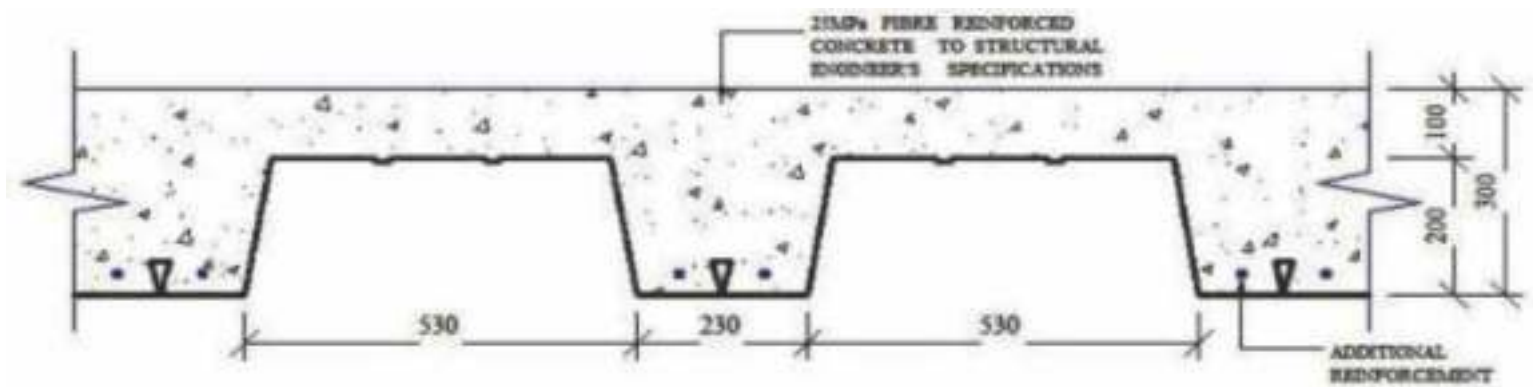
- Steel : 0.8mm ISQ230 (Galv. Z275)



- Concrete volume : $0.12m^3/m^2$
- Temporary propping to be at 2m centers.
- Deflections are not calculated but are controlled by restricting the span to effective depth ratios in accordance with the Code of Practice.
- **N.B.** All tabulated values serve as a guide only, and should be certified and approved by a civil/structural engineer.

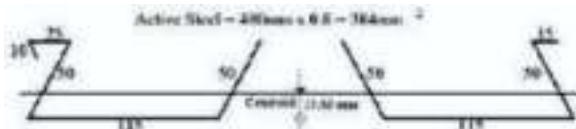


JOIST FLOOR: VOIDCON CONCRETE SLAB
DESIGN TABLES: 300MM SLAB



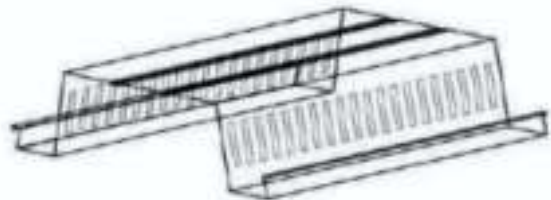
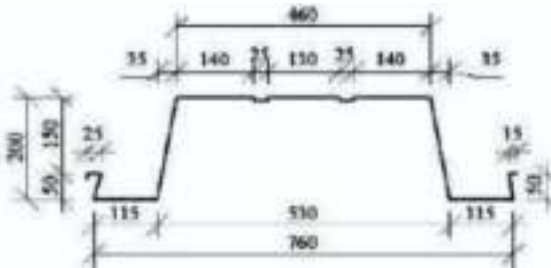
Design Parameters and Assumptions

- Steel : 0.8mm ISQ230 (Galv. Z275)



	Area of Reinforcement $f_y = 230\text{N/mm}^2$ $f_y = 450\text{N/mm}^2$	Moment of Resistance $M_r =$ $0.87 \times f_y \times A_s \times z$	Total Factor for Uniformly Distributed Supe					
			1.5kN/m²	2.5kN/m²	3.0kN/m²	4.0kN/m²	5.0kN/m²	7.5kN/m²
			$W_u =$	$W_u =$	$W_u =$	$W_u =$	$W_u =$	$W_u =$
			8.37	9.97	10.77	12.37	13.97	17.97
VP 200	384	27.298	5.11	4.68	4.50	4.20	3.95	3.49
+ 1xY8	50.3	34.294	5.73	5.25	5.05	4.71	4.43	3.91
+ 1xY10	78.5	38.216	6.04	5.54	5.33	4.97	4.68	4.12
+ 1xY12	113	43.015	6.41	5.88	5.65	5.27	4.96	4.38
+ 2xY10	157	49.134	6.85	6.28	6.04	5.64	5.30	4.68
+ 1xY16	201	55.254	7.27	6.66	6.41	5.98	5.63	4.96
+ 2xY12	226	58.731	7.49	6.87	6.61	6.16	5.80	5.11
+ 3xY10	236	60.122	7.58	6.95	6.68	6.24	5.87	5.17
+ 3xY12	339	74.448	8.44	7.73	7.44	6.94	6.53	5.76
+ 2xY16	402	83.210	8.92	8.17	7.86	7.34	6.90	6.09
+ 4xY12	452	90.165		8.51	8.18	7.64	7.19	6.34
+ 3xY16	603	111.166			9.09	8.48	7.98	7.04
+ 2xY20	628	114.644				8.61	8.10	7.14
+ 4xY16	804	139.123					8.93	7.87
Maximum Span (L) in m								

- Concrete volume : 0.17m³/m²
- Temporary propping to be at 1,5m centers.
- Deflections are not calculated but are controlled by restricting the span to effective depth ratios in accordance with the Code of Practice.
- N.B.** All tabulated values serve as a guide only, and should be certified and approved by a civil/structural engineer.

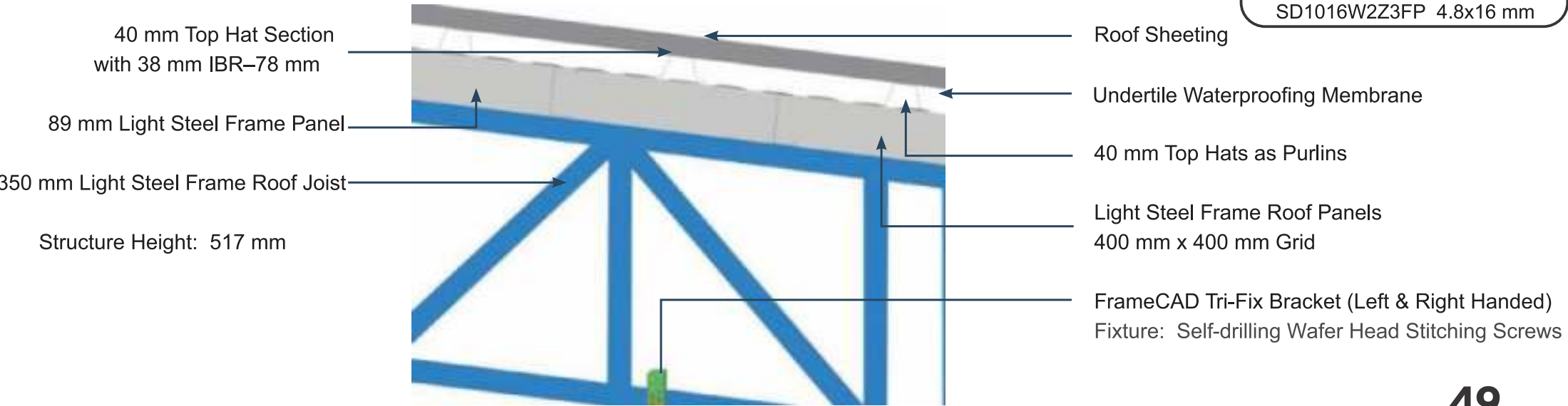
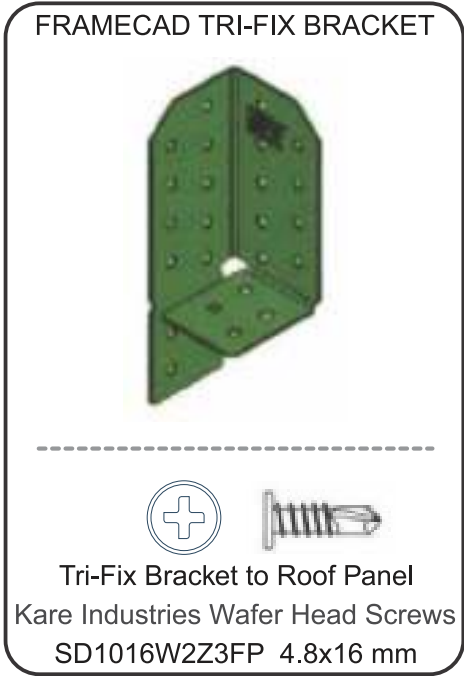




Roofs

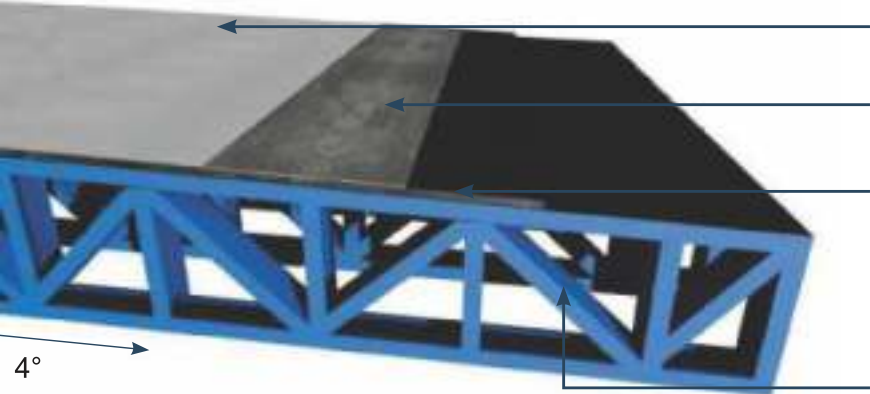
ROOFS: SHEETING CONSTRUCTION DETAILS

TYPICAL JOIST ROOF ON A LIGHT STEEL FRAME PANEL



ROOFS: SHEETING CONSTRUCTION DETAILS

TYPICAL JOIST ROOF ON LIGHT STEEL FRAME PANEL WITH 12MM FIBRE CEMENT BOARDS



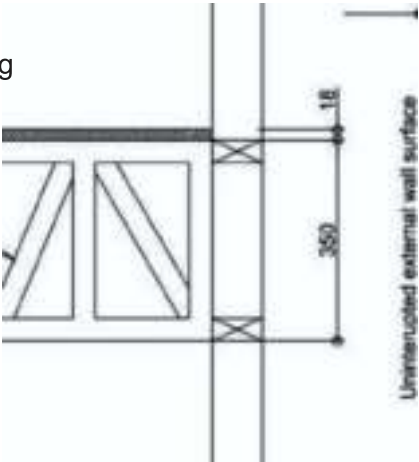
ABE Silvakote Bituminous Aluminium Protective Coating

ABE Index 4 mm Torch on Waterproofing

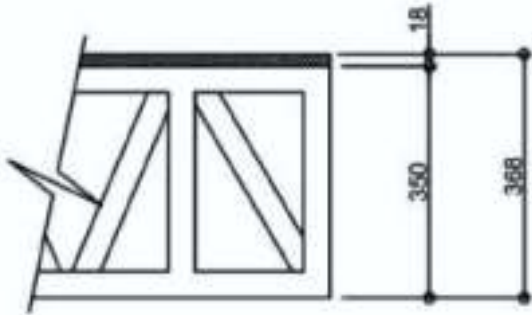
12 mm Fibre Cement Boards
Fixture: 4.9x42 mm Strongtie Self-Drilling Screws

350 mm Light Steel Frame Roof Joists

Structure Height: 370 mm
Maximum Pitch: 4°



Light Steel Frame Floor Joist Fixed on
Top of a Light Steel Frame Wall Panel



Light Steel Frame Floor Joist Fixed on the
Internal Face of a Light Steel Frame Wall Panel

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